

<110> Andersen, Scott E.
 Byrum, Joseph R.
 De La Pena, Robert C.

<120> NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
 PLANTS

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 ccgtcaactt cttgttcacg gaggggaagt tccgcgggag cacggtgtct gtgctgggcc 240
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 ggatggcgcg cgggtacagc ttcattgagc ttgtgcctga gatgagcgta cccgataagt 360
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 aatgggggaga gtaagcatga taagaaaggc tgcttttagta attggggaaa gaggggtcaa 300
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tgatcaaaaag acatcatata taagtttaat aatattttca tgaacagttt acccttttat 240

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gctatgtcga agattgtctc tgttctgtta gaagatgtca atctaagtac gtgttgatgc 420
ggaatcatc 429

<210> 36
<211> 414
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189002e08b1

<400> 36

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gaccctgacc ctctccagga cttctgtgtg gccgacctcg atgacaacgc ggtccgggtg 120
aacggatacc cgtgctgccc ccagttggaa gccggcgacg acttcctctt ctctccaag 180
ctagccaggg gcggcaacac gtccaccccg aacggctcgg ccgtgacgag gctggacgtg 240
acggagttcc ccggcgagaa caccgaggt atctccatga accgcgtgga cttcgcgccc 300
gggggcacca acccgtcgca catccacccg cgcgccaccg agatcggcct cgtggtgaaa 360
ggcgagctcc tcgtgggcat catcggcagc aacgagtccg ggaacaggct ctac 414

<210> 37

<211> 398

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189002e09b1

<400> 37

ctcacagtgc cagcatcctc tcagtcctca cttcctgcc ctcgccacca cccaccaagg 60
aaaggaggat gtcttgctgc ggcggcaact gcggatgcgg cgccgggtgc aagtgcggca 120
acggctgcgg cgggtgcaag atgttccccg acgttgaggc caccgccggc gccgccgcca 180
tggtcatgcc caccgcctcc cacaagggga gtcggggcgg gttcgagacg gccggcgggg 240
agaccggcgg ctgcgactgc accacctgca agtgccggcac ggctgcggc tgctcctgct 300
gcagctgcaa ctgagccggc gccaggagg ccggccggcg aggcgagcac gaggatgagg 360
aggacaactg gacaagcaac caccaccacc accaccac 398

<210> 38

<211> 294

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189002e10b1

<400> 38

ccctctcgtc cggatcatcat cgtaaattgc agcagttttt ctttcatcac atcttgccaa 60
ttttgggcag catatgttat tgaacgagct caatagactg ccaggtcttc cccatggcaa 120

gtgttctgga ctggctactg tgtttatgtg ctgctatgc tctggcacag aattgggcca 180
 ttgcttgtct tacattccct ctgttgtaaa acttcaaact gaatatacct cttgtatggt 240
 gtatgcagat atcttcggct agagataata tggtcagtat aaatactttc tctc 294

<210> 39
 <211> 286
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189002e12b1
 <400> 39

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 gatagcatgt cctcttttct ttctagttaa cttgtggccc ttgaggatga gtttctctgga 180
 ttatgtaatg ctgctggatt attgtctgtt aggtttaaga ttttgcaactg tggtttggt 240
 gctaagattt gttcagtttg aacctgaaag agcttttgat cggatt 286

<210> 40
 <211> 147
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189002f02b1
 <400> 40

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 aggcaagatg cattcttttg atgtactatc tgaaatttta caaagtaact acagaacaga 120
 tgacgcaatg aagtacatct actaatc 147

<210> 41
 <211> 388
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189002f03b1
 <400> 41

tcgtgattat ggtttatggt agcattttca acaaaaagac atgtgtttgc atgcctttgt 60

tgtggacgag cggatctatg gccaggaatg cgggatgacc cttgggtgac gtctgacaag 120
 cgttgtgCGT cccttgatgg gtgtgggtgct ggctgtagag tagcatagtg ttctctgaga 180
 catgcttgta aaattaaact tttttggatc cttttttttg ctcctgtaga gatgtatttt 240
 cagttctgta tgtcatgctt gtaaaattaa tcttttttgg atcctttttt tgctcctgta 300
 cagatgtatt ttctgggtgta tatgtaattt tctgttttta atgacacaag catatatattt 360
 ctgttaaatt attattggct taaaattt 388

<210> 42
 <211> 376
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189002f04b1
 <400> 42

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 ggaagacggc agcgtttgag atacacgcaa agaagccagc atgatccatg atcggccgaa 120
 gcaacactac ctgtgcagta tttagttatt acaaacagcc aagccatcct tgtaaaatag 180
 ctagtgggtgg ttaagaataa atatcttggc ctatttacta ttcgtgtatt atatctgtta 240
 gaaacgttct agtgcagatg cagaacttcc cttctaaatg tctctattca atgccttggt 300
 cttggtagtc tttgtctttt ttttctgtgt gaggtgggtc tgtgattaag ttgaaatgag 360
 atataactgc attttc 376

<210> 43
 <211> 432
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189002f05b1
 <400> 43

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 gggtcaggcg gcgaccattc aagtcccccc gggcacggcg gctggaagga tttggggccg 120
 caccggctgc aacttcgatg ctagtggccg cgggtcatgc accacgggag actgtggcgg 180
 cgtgctagcc tgcgctgccg gcgaggaggc acccgcgacg ctcgccgagt acacgctggg 240

taagggcggc agccccgact tctatgacat ctccctcggt gacggattca acgtgccgat 300
gagctttggg cctgccggcg gcggttttca cgcgataagc tgtgccggcg acatcaacgc 360
aaattgcccc tcggagctga aggtggacgg aggatgcgtg agtgccctgcg tcaagttcgg 420
cgccccccag ta 432

<210> 44
<211> 347
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189002f06b1
<400> 44

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ctcgaaggag gagtaggctc tgttctgatg tgatcggcag cctcctgga gtcgatcttg 120
gtttcggtgt atcgctagaa agaaacttta atacctagta gtccgctagg ctccatcgtc 180
gttgtggtat cagcagcgaa gatgcgaagc cgcaacagaa tgcttgctgt ataacttggtg 240
catttgctaa atttgctacg ccatgcatgt ctgccacacg ctatttggat gtggctaaaa 300
aactcctgaa taattctgta cataatatgt attgcttcca ttagaaa 347

<210> 45
<211> 406
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189002f07b1
<400> 45

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ccaagatgaa gttcattgct gcctatctgc ttgcttaact ctctggcaac gccagcccct 120
ctgcagagga cctgacatcc attcttgagt ctggttggtg tgaaatcgac aatgagaaga 180
tggaactcat gctgtcccaa gtgaagggca aggacatcac cgagctcttg gctgctggta 240
gggagaagtt tgctgcgggt ccactctggtg gtggtggtgt ggctgtttca gctgctgccc 300
ctgctgctgg aggtgctgct gcccctgcag ctgagtcaaa gaaagaagag aaggtcgtgg 360
agaaggaaga gagtgatgat gacatgggct tcagtctggt cgacta 406

<210> 46
 <211> 290
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189002f08b1

 <400> 46

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 atgtgaatca taagatgtgg taggatgggtg ctatgcgaag cgtgtcgagc tgaagtacct 120
 agtggactac agtcatgagg acgggtcatgt ggacatcgtc gcttcttagt tcattagcag 180
 atttcaaact atttcctgta ttgcagcaca ttattagtat tgctgtatta gcaattttca 240
 tggcttggtg atgattgatc aaagaaaaaa aaaagcctaa acttaacact 290

<210> 47
 <211> 409
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189002f09b1

 <400> 47

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 ggatgtcttg ctgcggcggc aagtgcgggt gcggcgccgg ctgccagtgc ggcaacggct 120
 gcggcgggtg caagatgttc cccgacgtgg aggccaccgc cggcgccgcc gccatggtca 180
 tgcccaccgc ctcccacaag gggagctccg gcgggttcga gacggccggg gagaccggcg 240
 gctgcgactg caccacctgc aagtgcggca ccgcgtgcgg ctgctcctgc tgcagctgca 300
 actgagccgg cgcccatgat gccggcagag gcgagcacga ggatgaggag gaggacaagc 360
 aagcaagcac catcgtcacc agttcacagc atgcgcccgc gcgcgcgct 409

<210> 48
 <211> 370
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189002f10b1

 <400> 48

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agacggcgag gaagtccacc ggcggcaagg cgccgcggaa gcagctggcg accaaggcgg 120
cgcgcaagtc cgccccggcc accggcgggcg tgaagaagcc gcaccgcttc cgccccggca 180
ccgtcgcgct ccgcgagatc cgcaagtacc agaagagcac ggagctgctc atccgcaagc 240
tgcccttcca gcgcctgggtg cgggagatcg cgcaggactt caagaccgac ctccgcttcc 300
agagctccgc cgtgtccgcy ctccaggagg ccgccgaggc ctacctcgtg gggctgttcg 360
aggacaccaa 370

<210> 49
<211> 388
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189002f12b1
<400> 49

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gcggcggctg caacatgtac ccggaggccg aggcgcggcg tgccaccctc cttgtctccg 120
ccaccgccac ccacaaggcg agctccggcg ggatggagat ggcggccgag aacggcggct 180
gcggctgcaa ccagtgaag tgcggcacca gctgcggtg ctctgctgc agctgctaga 240
tcategatca tcgaccatgc atgcaccgtg ccgtgctgctc atcatcgatc atatcgatct 300
actactacca taccatgtaa ccgtacctg atcgagggcc tttctgtacg cacctgacct 360
gcatcagcag tcaggtgccca tgccatgc 388

<210> 50
<211> 55
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189002g02b1
<400> 50

aaatttaaaa aaaaaaaaaa aaaaaaaaaa aaagggcgga caatataaaa agaaa 55

<210> 51
<211> 436
<212> DNA

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atgcatgcac cgcgcgcatg catcatatct atgatcgatc catccatcca tctagtagca 360
tgtaacgcta cctgatcgag ggtctttgta tgtatgtaag cacctgccag catgagcaga 420
gcaggtgcac tcccatgcat gtaaacc 446

<210> 54
<211> 158
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189002g07b1
<400> 54

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accaccgagc agaagtgaac tcttgaggct gcttcgtttt ttgtgaacca aacgtatctt 120
gtttatcgat ttgacaagcc tggttctgag ttatttta 158

<210> 55
<211> 339
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189002g09b1
<400> 55

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ccgcctgcaa gtgcggcaac ggctgcggcg gctgcaacat gtaccggag gccgaggccg 120
ccggtgccac cctccttgtc tccgccaccg ccaccacaa ggcgagctcc ggcgggatgg 180
agatggcggc cgagaacggc ggctgcggct gcaaccagtg caagtgcggc accagctgcg 240
gctgctcctg ctgcagctgc tagatcatcg atcatcgacc atgcatgcac cgtgccgtgc 300
gtgcatcatc gatcatatcg atctactact accatacca 339

<210> 56
<211> 266
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189002g11b1

<400> 56
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 ccctatcttg aaggactttc ctactgttat atccaacaat aaatgttatt ctatcactcc 120
 tattgttaat tccgggtgct tctatggcgg gccaggaggt tgtgtgtaat actaagctgt 180
 actttgaacg tgggtggtgta ataatgggtc ccttgagttt gtcttcccaa actcatactg 240
 gcctaataag acactatgtg tttccg 266

<210> 57
 <211> 230
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189002h01b1

<400> 57
 ataaatgtgg atggtgtcgc cagacgacgc ctggttcatt ttagttggac atgagttacc 60
 ttctgttttc cgcatacaacc tctagtatct gtaatggagt tgctaataca gtactctttt 120
 ttggttgtgg tttgtgaaga atatataaat cgttcagtcc agtactcaac tccctttctg 180
 tctggctttt cgcctcgtcc gtggcttgga tttctgcttt tgccttggtt 230

<210> 58
 <211> 331
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189002h02b1

<400> 58
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 gggagaagct cgaccgcata gtccagcaga agctccatgg ttccgggctc gtgttttgag 120
 caagagtcatt ttgtcatgtg ttctgtgctc ctttgcactc tgctgcttct ggttggtgag 180
 aggagagccc tatgttgatt gtgtttatta ttattattat tatcattatt gtttggattg 240
 cttaccacat gtgtcaccgt ggtatgttga ttgtggttta attttgagaa taataataaa 300
 acaacatctg gcctcatagg gtgggatagc c 331

<210> 59

<211> 309
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189002h03b1

 <400> 59

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 ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaagg gggggggggg ttaaagggaa aaaatttttg taccgggggt tgggaagaaa 240
 aaattttttt tttgggggca caaaaataaa ataagggggg ggggttttaa aaaggggggg 300
 ggggggaaaa 309

<210> 60
 <211> 392
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189002h04b1

 <400> 60

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 agccgcccgc gccgccgcc cgccctcctt cgccggccgg ccgccacagg tagtttcaag 120
 atgtcaacct gcacgtttgc agcttctctg gccctcttgg gcaatgctcg aacaaccgat 180
 gccccccaga aagcgggtcaa gagccgcctg agcttctctg gccgaggcgc gccgcagctg 240
 cggagcctga ggtcctcctt cccctccaag aagctggtga catctgcata caaggggacg 300
 agcacgtaca aggtgaagct ggtgaccccg gaaggggacg agcacgagtt tgaggcgccg 360
 gacgacgcct acatcctgga ctcggcggag ac 392

<210> 61
 <211> 274
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189002h05b1

 <400> 61

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cagtgccttt tctgcccata atgtgggcat ggaagatttg agctttgcaa taaaatttcc 180
ggcggcgcaa tgccacacat aacataactt gtacgagagg aagctagttt tgtgtcgagc 240
tgtgaactga taatgaacaa ttgctgatgc gtgg 274

<210> 62
<211> 170
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189002h07b1
<400> 62

tcggatgttt gtttacttct gaagctactt cgccctttcc aaattactta cagcgtgctc 60
ggcagtatga gggaaaggga atggaagggtt acaagaggga gtatgtctag atattagact 120
tgagaattac tagaatttta gtctcaatct ccattttgat gtgtggtcgg 170

<210> 63
<211> 193
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189002h08b1
<400> 63

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gcatgcttgt tggatgtgta cttgtaccct ggtgtttag cccatgtaaa aaatgaatac 180
ccttttgaac att 193

<210> 64
<211> 394
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189002h09b1
<400> 64

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 tgtgtgattc ttttctgcct tatggctaca tgtagtgagg tttcatctac cgaaaacatg 120
 tgctatcaca accattggaa taaatgccat actgatcaaa atggaatgtg tcgagatagt 180
 tgtgtgaaag acggatggga tgatggacaa tgccggaaca agttttaaag actaatgggt 240
 gccaaagtgcg aatgttacc c taagacttgt gatcattagg gaggcaacat gcgactttct 300
 tctaccaagt tactactatt tataaattta catcggtttt aatgattgac gtcaaacatg 360
 ttgtaacacc aatcatgggtg aatactatat cacc 394

<210> 65
 <211> 384
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189002h10b1
 <400> 65

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 tagaagaagg gcgttgccgc gaggaggcgg cgccaacatt tggatttcag agccacaagg 180
 ttcgaggggc ggccgtggtg cgcggtggcg tccgcggcgg acggggcggtg cgcggccgac 240
 atggaggcat cggctgcggc gcatggcgag cgcgtggtga cggcgacgcg tggcgggtcc 300
 gcggcggtgc ggtgtgatgt cgtgcgcgcg aagagcacgg tggtcgcgga gacgaggagg 360
 tcgcggagga cctgcgtggt ggcg 384

<210> 66
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189002h11b1
 <400> 66

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 ctgccgaacc agaacaccgt cgattacccc agcttcaagc tcgtcatcgt cggcgatggc 120
 gggactggca aaaccacttt tgtgaagagg catctcactg gagagtttga gaagaaatac 180

gagcccacca ttggtgttga agttcaccca ttggatttca ccactaactg cggaaagatc 240
 cgtttctact gctgggacac tgctgggcaa gagaagtttg gtggccttag agatggatac 300
 tatatccatg gtcagtgtgc gattatcatg tttgatgtca cttcaaggct gacctacaag 360
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 tgcggcaaca 430

<210> 67
 <211> 238
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189002h12b1
 <400> 67

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 gtgtgctctg tgtaagctcc atgctgtgtg aaattctctc gtgtgtgtgg tgtggctctt 180
 tcaatgttta accacctatg gtaaagacaa taacagcctc agagcaagtt ttccttaa 238

<210> 68
 <211> 362
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189003a01b1
 <400> 68

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 ggccgcccgc cgcgcgcgg tccttggcct catggccagc ggagtcgtcg ggagcgcgtt 180
 cgctcaggtg gtgcacgccg gcaccgtcgc ggccatcaag gttggcccc cgcgcgcgt 240
 ctccggtgga ctccccggaa cggacaactc ggacgaggca agggacttcg acctgccct 300
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 gt 362

<210> 69

<211> 462
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189003a03b1

 <400> 69

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 cggccacctt cggcgccgcc gacgtgactg aggacttctt ggggacgctg gtggggaaga 180
 aggggaatgc tgagcgggtgc atgtacaacg ggcagccggt cgagggtgtgc ttcctctttg 240
 cgaggaagtt cggccctgac gctttgccgc agttgctcag cctttctctc aagatccttg 300
 ggtactagct atgcctttta ctaaactgat tttggctctt ttatgtatag ctcatactca 360
 ctggagtgga atagaggaat acaattcttt ttttcatgtg tcacaaagaa caaaaggatg 420
 aatgatcgag tgggtggttt ttcttgacca ttcattttc tg 462

<210> 70
 <211> 462
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189003a04b1

 <400> 70

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 aagaagctgc gcaaggcgaa aaaggatgct cctgctggtg agaagcctga gccagtgagg 120
 acacatctcc gcaacatgat cattgtccct gagatgattg gcagccttat cgggtgtctac 180
 aatggcaaga ctttcaacca ggttgagatt aagcctgaga tgattggcca ttaccttgca 240
 gagttctcta tctctacaa gccagtgaag cacggtaggc ccggtatcgg tgccacacac 300
 tcttcccggt tcatccctct taaatgagtt gtgccgcttt ctactttgaa agaaatcagt 360
 acggaccatc tgatggcatg tccatcgagc tgtctccctt gttttgaacc agttatatat 420
 ctagtatttg gttctggtta gctatataat ttcggtatgc ac 462

<210> 71
 <211> 115
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003a05b1

<400> 71

aaattttaaaa attttataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaagaa aaataaaaaa aaaaaaaaaa aaaataaaaa atggggggcg gcctt 115

<210> 72

<211> 455

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003a06b1

<400> 72

gccctcggcc ggtgccgtcg ccgtcgccgt cgccgctgag ccaaccaccg aagcgctcgc 60

aactcctcgt cctcctcccc gtgcctgccg tcctccaccg gatcggcccc gatcggaggc 120

tcccgcgaag cgattcctcc cgtcaggcag tcgagatgtc ggagtacaag aacgtcgttg 180

gggggaagct caaactgaag gggaaaccgc tggatgtcaa ggagggcgga gtcaagaaga 240

agaataagaa gaagcaccgc cgcgaggagt cgtctcaagg cgagcacagc gagctccgcg 300

aaggtggaag ctctgaatta ccaggcgacc ctgacaatga attcagtga gctgacaagc 360

tgggagagga agggagtgcg caagccgatt atgaccacct cactccagcc gagaggcggtt 420

acattgaaca gaagcagaaa tcgatcagca tcgac 455

<210> 73

<211> 193

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003a07b1

<400> 73

agaacctgaa tttaacagca aaactagctt tctgacgccg tcagttttgt tttattatta 60

tagaaagacg atgccggttt gtcgaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaggggg ggc 193

<210> 74
 <211> 62
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189003a08b1

 <400> 74

 aaaattaaaa atttttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaag 60

 gg 62

<210> 75
 <211> 278
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189003a09b1

 <400> 75

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 cggagcaggg cagcgccgcc gccgaggtcg ccgccgtggt cgtcctcggc gtggcgccctg 180

 agaacaaggc gggacagttc gaggtggccg ccgggcagtc cggcgagggc tgcagctgcg 240

 gcgacaactg caagtgaac ccctgcaact gttaagct 278

<210> 76
 <211> 431
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189003a10b1

 <400> 76

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 tatccctggt tggatggata ccgaaacatt tccttcggat tctttttcac aagcggaacc 120

 atctatcatc gagtgcccaa caggaacagt tccaatactg cgtagtaacg gaagtagcac 180

 catagcaaca cacaatattg atgggctcaa aaacgatatg caatgggaga gggcaggact 240

 cagatacatg ggtgatttat atggggcgtg tgcttcatta aatgtttggg agccaaaggt 300

<223> Clone ID: uC-tsfl189003b01b1

<400> 79

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gaccgttgaa cctaccggg gtctgaacgg ataagggggc agcgaggcgg cctctccagg 180
ggataatcag aaggaagaat gtgctcgtcc ggccagatca caccggcaga agaagtctgc 240
tacgtgcact gcaacttctg ccacaccaga ctgcgggcga gcgtccctgg gaacaacctg 300
ctcaacatcg tgacagaccg gtgcgggcac tgcacaaacc tactttcggg gagcctgaga 360
gggcagatgc actcaccggt cc 382

<210> 80

<211> 509

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003b02b1

<400> 80

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caagttctac cacggccgca ccggacgcgt gtggaacgtc accaagcgcg ccatcggcgt 120
cgagatcaac aagcagggtg gaaaccgcat tatcaggaaa aggatccatg tccgtgttga 180
gcatgtgcag ccatccagggt gtgctgagga gttccgcctg aggaaagtga agaacgacca 240
gctcaaggcg gaagccaagg cgcgcggtga ggtcatcagc accaagaggc agccactcgg 300
ccctaaacct gggttcatgg tcgagggtac cacaattgag accgtcactc ccattcccta 360
cgatgtggtc aatgatctca aggggtggta ctagggtggt tgggttatct gcctgcacaa 420
ccagttcaaa tctatgggtgc tcttatgagt aggatttgct ctctgagcaa gagtctgggt 480
tgggtcttta ttcagtgtcaa gaagatatt 509

<210> 81

<211> 405

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003b03b1

<400> 81

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cgaaggcaat ggccactgct gatgtccaga acccggcggt cgcgctgacg gaggaggcgc 120
ccgcggtgga gacaccctg gtcgccgagg aggtcgcgaa gacggaggag gccccacgc 180
cggcggtggc cgaagtcgaa gcgcctgctg ccccgctcga ggttgaggag actaaggagg 240
aggcgccggc cgccgctgag acggaggaga ccaaggagcc cgagcccga gctgcggccg 300
agccggaggc cgaggcgcca gccgtggtcg agacagagac caaggaggcc gtggctgagg 360
cagagccggc ggtggtcgag gaggtgaagg aggaggcggc gcctg 405

<210> 82

<211> 406

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003b04b1

<400> 82

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gaagggcatc tccacgaacg tgacgttccc gacgggtcaag gcgaagctgc ggctgctgtt 120
cgagggtggc ccgctggggg tcttgataga gaaggccggg gggcacagca gcgacggcaa 180
gcagtcggtg ctggacaagg tgatctccgt cctggacgag cggacccagg tggcctacgg 240
ctccaagaac gagataatcc gcttcgagga gaccctctac gggtcctcca gactcgccgt 300
cagcgccacc gtaggcgcca ccgtctgata atcgatccat cttctttttt tacgcttttt 360
tcaacctgaa aaacaagatg tccgttatag agttcgctg aagcat 406

<210> 83

<211> 448

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003b05b1

<400> 83

cctaaccaca taatatctcc gtcgatccac cacaccctgc aatggcgctc gcgctcacca 60
acgtgagcct gtctaccttc gcgcccacgg ccaggggcga cgctctcgcc aggctcagg 120

tggccgcccgc ccgcgtcacc ttcccgcacgg cgtaccgtgg cagcgggtgcc ctctcctgca 180
 gggcggggtgg gccggccacg ccgcccgggca tctccgacaa gatgtcggac agcatcaagg 240
 agggccagga gacgtgctcg gaggacgccg ccagcgggga gtgcgcggcg gcgtgggacg 300
 aggtggagga gctcagcgcc gccgccagcc acgcccggga caagctcaag gactccgacc 360
 cgctcgagaa ctactgcaag gagaaccccg agaccgacga gtgccgcacc tacgacagct 420
 gagcgtacgt gctaatttgt tctggacg 448

<210> 84
 <211> 435
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189003b06b1
 <400> 84

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 tgggggtttcc ttccctaatec tgcaagatct cctcgtttgt caaagatttt tccatgggct 120
 gggacatttc ctcttccatc agttgtgagg aaacttactg aaacagtgtg gcagaagata 180
 agcgacccaa gaagtataca gaagatactc aggcaagtat atgctgatca ctcaacaaat 240
 gttgacaagg tgttctcacg tattatagag acaacagaac acccagcagc tgctgcatca 300
 tttgcctcca ttatgtttgc tccaatgggc cagatatact ttcaggaggc actatctagg 360
 tgccaaaagc aggacattcc catttccctt atgtatggga aagaagatcc ttgggttaca 420
 ccttattggg gtatc 435

<210> 85
 <211> 62
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189003b07b1
 <400> 85

aaatataaaa aatttttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aa 62

<210> 86

<211> 443
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189003b09b1

 <400> 86

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 caggaggagg gatcgcgcg ggccgcctcg cggaggagcg caaggcctgg cgcaagaacc 120
 acccccatgg attcgtcgcg aagccggaga cgggtggccga cgggtcgggtg aatctcatga 180
 tctggaactg caccatcccc ggaaagcagg ggactgattg ggaaagtgga tactaccac 240
 ttactctcca ttccagttag gactacccta gcaaacctcc caagtgcagg ttcccgagg 300
 gttttttcca cccaaatgtc tacccttcag ggacgggtctg cctctcgatt cttaatgagg 360
 atagtgggtg gagacctgcc atcactgtta agcagattct agttggaata caggatttgc 420
 ttgatcaacc taatccagct gat 443

<210> 87
 <211> 106
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189003b12b1

 <400> 87

 cacagaccaa acgcagtctt ttagcttgta tagggcacac gacggtcgga tcacagtagg 60
 gaccaagaac cataggtgga cgacaaggcg ccgaagccca aaacaa 106

<210> 88
 <211> 269
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189003c01b1

 <400> 88

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 agtactgttg cctgttgggt agctggtcgg gttatcttgt agcgggtgtag tcgtggggag 120
 cagcatcgga ttacctggt ttctagtctt atcatggaat ttaggggctt tgtgcaaata 180

tcggttttgc cctgcgggtt gcttgtatgc ttgggttggtg ttcagctcca aaatgctggc 240
cggaagtaca ttttgtggat tccatttgg 269

<210> 89
<211> 181
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003c02b1

<400> 89

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ttgctgctct ctgcgtgtat tcgttgttgt tttctgcatg tgttccacct ccatctgttg 120
tccttgttac agatcgagca gattactgat cgaatcatca ataaaataat gtgttgagcg 180
g 181

<210> 90
<211> 497
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003c03b1

<400> 90

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gaaatctcaa gaggcggcac catgctcgtg taccaggaca agctttccgg cgacgagctt 120
ctgtcggatt cgttccctta caggagactg gagaacggcg tgctctggga agtcgatggc 180
cattgggtcg ttcaaggagc agttgatgtg gacattggag ccaatccctc tgctgagggt 240
gggtgtgatg atgagggtgt tgatgaccag gccgtgaagg tggttgacat tgttgacacc 300
ttccgtcttc aggagcaacc tgcttttgac aagaagcagt ttatctctca catgaagcgc 360
tacatcaaga acctctctgc caagcttgaa ggggatgacc tagatgcttt caagaagaat 420
gttgagtccg ccacaaagta tcttcttagc aagctcaagg accttcagtt ctttgttggc 480
gagagcatgc atgatga 497

<210> 91
<211> 131
<212> DNA

<211> 431
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189003c08b1
 <400> 94
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 ctggcttcaa gaaggatgag aagcagctgg acgctgagat tcaccgcaa tacatctatg 120
 gaggccatgt tgctgactac atgaagtcac tggctgatga ggaacctgag aagtaccaat 180
 ctactttcag tgagtacatc aagaagggga ttgaggctga taacatggaa gcactgtaca 240
 agaaggttca tgctgccatt cgtgctgac ctaccatggc aaagtcaacc aaggaacctc 300
 caaagacgca caagaggtac aatcccaaga agctgaccta tgagcagagg aaggccagtc 360
 tcgtggagcg gctcaacgcc ctcaactcat ctgctggtgc tgatgtcgat gaggacgacg 420
 acgaatgagt g 431

<210> 95
 <211> 434
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189003c09b1
 <400> 95
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 gaagcagaaa cccctgtaga gttggttctc gtgatgacgg tcgagcctgg ctttggtggc 120
 cagaagttca tgccggagat gatggataag gtgcgtacgc tgaggaagaa gtaccctgcc 180
 ctgcacattg aggtcgacgg tggcctgggt ccttccacca tcgacgccgc cgcgtcggcc 240
 ggcgccaact gcacgtcgc cgggagctcc gtgttcggcg cgcccgaccc cggagaggtc 300
 atctcggcgc tgcgcaagag cgtggaggcg tcgcagatca agagctgac atctgtagct 360
 ctgcgcgctc ggacggacgc atgtttctgc tgtaaactag aaccactctg cacgaccgac 420
 gctcggtcag cagt 434

<210> 96
 <211> 299
 <212> DNA

tggtggcccc tttcatcaga tctcgatgag caaggccggc attgtgtatc tgtgatttct 120
gtggtaatgg ttaaagatgc aatcctttca atctt 155

<210> 99
<211> 231
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189003d01b1

<400> 99

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cgcacggtct tagcttgctg gctggcaagc tagtactgga ctgcctgccg tatttttgaa 120
ggattaacga caacatatac gattgactct cgagcgtctt gtactataca ttgtgtaa 180
gaacgaaaca atcttagtag tccgtttcac aagatcggct tatgtgtatc a 231

<210> 100
<211> 147
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189003d02b1

<400> 100

ctgttctctg gggttttggt ggtgttatcg atgaagctga tttttgcccg tttggcgccg 60
gggctgtatc catccatgtc ttttgaaaaa tgctacgtgg ctactcttaa tgtagtgtga 120
tactcgtata aaagcaatct gtttgtg 147

<210> 101
<211> 304
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189003d05b1

<400> 101

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atgaatgcag aggggtgctgc tttacaagga tctggatggg tgtggctagc tttggataaa 120
gaggccaaaa agctttcagt tgaaactact cctaatacagg accctcttgt gaccaaaggg 180

taatcatcgg tagacaaaga acaagggcga agttgccgcc atgctatatt attgttacgt 180
 cttgcttcag cggagctgca ctctcatggt cgtcgtccct cccccctacc ccaccctagg 240
 ttaccaccg gcagctgcag caaggtctct ttgtcgaggc atcgggcgat ccatttggtt 300
 gatttctctt cttcctgcct tgtgattatc tcgtgtgact gacaagtcgt ggcaatttag 360
 gtaacttgct tagtagacgg tatttcccgt gtttgagacc ccgtaaaaaa aaagtatctc 420
 gttgttatct cggttccata agtagagaca tgatgtaatc gcactcagtt tattttattt 480

<210> 105
 <211> 481
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189003d11b1
 <400> 105

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 gcgggcatga tgaagaagca ggtcgtgacg gcgctgatgt tggcgctggt ggtgctggcg 120
 gcggcgccgg gcggggcgcg cgcggcgtgc caggcgctgc agctggcggt gtgcgcgtcg 180
 gcgatcctct ccggggccaa gccgagcggc gagtgtgctgc gcaacctgcy ggcgagcag 240
 ggggtgcttct gccagtagcg caaggacccc acctacgggc agtacatccg cagccccccac 300
 gcgcgcgaca ccctcacctc ctgcggcctc gccgtcccgc actgctaggc gccggcaggc 360
 ccctggcgca tatggctagc tagctgccgc cgtgagagtgc tcagactata gctagcccta 420
 gctgagtgcg tacgtgttgc gtccatgaac gcatcttctt gctaaactac tatgtgggtc 480
 g 481

<210> 106
 <211> 231
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189003e01b1
 <400> 106

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 cgcacggcct ttgcttgctg gctgccgagc tagtactgga ttgcctgccg tatttttgaa 120

ggattaacga caacatatac gattcactct cgagcgtctt gtactataca ttgtgtaaatt 180
gaacgaaaca atcttagtag tccgtttcac aagatcggct tatgtgtatc a 231

<210> 107
<211> 330
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003e02b1

<400> 107

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gcagctaatac gagggtcttt agaagcctgt gtacaagctc gtaacgaagg ggcgcgatctt 180
gctcgcaag gtaatgaaat tatccgagca gcttgcaaat ggagtcctga actagccgca 240
gcttggaag tatggaaggc gatcaaattc gaggtcgagc cggtagatac tattgataag 300
tagataaaac taaagataaa gaagagaagg 330

<210> 108
<211> 196
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003e03b1

<400> 108

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agacctacat tcgttgtaca gcgaacctaa tatgattaat taattagatt atgagaattt 120
ggttttgcga actgtcttat cttctgtact ggaatattga cataaatata gatcatggta 180
atcttctttt cctggtt 196

<210> 109
<211> 131
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003e04b1

<400> 109

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 taattcgtgg t 131

<210> 110
 <211> 447
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189003e05b1
 <400> 110

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 cggcgccggc ggaggcagga atgcggatgt tctccaaggc ctgctcgtc gtcgtctcct 180
 ccttcccgcg ctgctcctcc tccgcccccg cgattagggg ccagccgtcg ttgataccga 240
 ggggtgagcag gaaatggctc gggaagccgc tcatgtacgg gatcggcacg ctgctgggtca 300
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 atgcgtacat cttgcatgat gtggata 447

<210> 111
 <211> 132
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189003e06b1
 <400> 111

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 cgaaataagt tgcttcaata acttatcaga atgtaccag gattgcaatg atttgtcaaa 120
 ctagtttaga gg 132

<210> 112
 <211> 307
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189003e07b1

<400> 112

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aagcggcaac caaatgcgca ttccattgag tttgtatggt gggctgctct ttgcacaagc 120
tgtgtgctta tgagggtgctg gtacttatcg aggacagcag gggggtagcg tactcgtggt 180
gttgactat gttttgtttc tttgttatat ttttgagtgt ttgatctgtt tgagcctttg 240
tgacctgaga aaataaaaat aatatgagtt acctttgtta atttaaaaaa taaaaaaaat 300
aaataaaa 307

<210> 113

<211> 472

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003e08b1

<400> 113

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gctactcgga gcgccagccc atcggcacgg cggcgaggg cggcggcgcg gacgagaagg 120
actacaagga gccgcccccg gcgccccctc tcgaggcgga ggagctcacc tcctggtcct 180
tctaccgggc cggcatcgcc gagttcctgg ccaccttctt ctctctctac atctcgggtg 240
tcaccgtgat gggcgtggtg ggcaaccctg ccgggtccaa gtgcggcacc gttggcatcc 300
agggcacgc ctggagcttc ggcggcatga tcttcgtgct cgtctactgc accgccggca 360
tctccggcgg acacatcaac cccgcgggtc ccttcggggt gttcctggcc aggaagctgt 420
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<210> 114

<211> 398

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003e09b1

<400> 114

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cgttagggtt tagtagcggg gaagaggaag gcatggcgga cgtcgagtac cgctgcttcg 120
 tggggcgccct cgcctgggcc accgacgacc agtccctcca gaacgccttc tccaagtacg 180
 gcgacgtcat cgactccaag atcatcactg acagggagac gggccgttcc cgcggttcg 240
 ggttcgtcac cttcgcgtcg gacgaggcga tgcgccaggc gatcgaggcc atgaacggcc 300
 aggacctgga cggccgcaac atcacgtca acgaggccca gtcccgcgcg tccggcgag 360
 gcggcgcgcg cttctgcggc ggcgcgcgcg gcggcgcg 398

<210> 115
 <211> 469
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189003e10b1
 <400> 115

gcgtatttgt ttacggctaa ttgcatcgcc ggtgatgcgc gagatcttga aagattccat 60
 cttgtttggc cgctccggcc aggggagagc tgcgccctct tgatttcagt gccgccacca 120
 cggctacttt ggcattaaac tacggacggc gtcgcggtc cgtcggggaa tcagatcacg 180
 tcgtgatcat catcagatta aaacaaacaa acgaacacga attcatcttt gccttgtcat 240
 ctctgtctgg actgtgcgct gattggattc gatccgtgtg ttgtttgctt gcgtgcgcgc 300
 agatgggccg cgattgccgc ccggctgccg gggaggacgg acaacgagat caagaacgtg 360
 tggcacaccc acctcaagaa gcggctcgac cccggcgcgc aggagcagct cgaggaggcc 420
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<210> 116
 <211> 400
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189003f01b1
 <400> 116

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 caaaataaat acttggtaaa taaatttatt tggcaacaaa cattgttgaa tgttctgtgt 120
 accttcattt tttcctgaag aaaaacttag taaaaacaaa attttaaatt atatttactt 180

<210> 119
 <211> 381
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189003f05b1

 <400> 119

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 atcccacctt cggaacagca gccagcaagc gtcgccagcc atgtcgggcc gcggcaaggg 120
 aggcaagggc ctgggaaagg gcggggcgaa gcggcacagg aaggtgctgc gcgacaacat 180
 ccaggggatc acgaagccgg cgatccggcg gctggcgcg cggggcggcg tgaagcgcgcat 240
 ctccgggctc atctacgagg agaccgcgg cggtgctcaag atcttcctcg agaacgtcat 300
 ccgcgacgcc gtcacctaca cggagcacgc ccgccgaag accgtcaccg tcatggacgt 360
 cgtctacgcg ctcaagcgcc a 381

<210> 120
 <211> 315
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189003f06b1

 <400> 120

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 ggaggaactt taggacatcc ttggggaaat gcacctggtg cagcagctaa tctagtgggt 120
 ttagaagcct gtgtacaagc tcgtaacgaa gggcgcgatc ttgctcgga cggtaatgaa 180
 attatccggg ccgatctcaa atggagtcct gaactagccg caccttgtga agtatggaag 240
 gcgatcaaat tcgagttcga gccggtagat actattgata agtagataaa actcaagaca 300
 aagaagacaa tgtat 315

<210> 121
 <211> 397
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189003f07b1

<400> 121

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catccggaag ctgcttgctg ggggagctga tcggctccaa agggactctg ctgggtgaga 180

actagatccc tgccatgggt ctgccttaca cattgttggg gtatatatag cagcacagtt 240

tggttgcctc gttggtaatc cagtagagta gactagccaa ttaacaagtg aactcactat 300

aaagcatttc ctgaatccat atttggaag ttcactggcc cctgcttgta ctataacaaa 360

cttttatgtg ctcaattgat gaattaaatc ttatgtc 397

<210> 122

<211> 468

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189003f08b1

<400> 122

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agcacaacgt cgccaaggac tgctggctcg tcatcgccgg caaggtgtat gatgttacc 120

ctttcatgga tgagcatcct ggtggagatg aggtactgct ggcagtaacc gggaaagatg 180

caaccagcga tttcgaagat atcggacaca gtgattccgc aaggagatg atggagaagt 240

accacatcgg ggaaattgat gtttcaacca tcccagcaa gcgtacattt gtacctctc 300

agcaagggtc ccatgtccag gccaaaggata gcgacctcct catcaagatc ctgcagtttc 360

ttgttcccat ttaaatcttg gggcttgcat ttggtatccg gcactacagc aaatctgagt 420

aggctgttgt tggcgagttg cttcggagaa atagctttca agtaatat 468

<210> 123

<211> 463

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189003f10b1

<400> 123

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ttgggtcgccg gacgccatgg cccccaccaa gaagtcgaag aagagcacgg agaacaatcaa 120
caacaagctg cagctggtga tgaagagcgg caagtacacg ctccggctaca agaccgtcct 180
caagacgctc cggagctcca aggggaagtt gattatcctc gcaaacaact gccctccgct 240
caggaagtct gagatcgagt actatgctat gctgtccaag atcagcggtc atcatttcca 300
tggaacaac gtggatcttg gaactgcgtg tggcaagtac taccgggtgt gctgtttgag 360
catccttgac cctggtgact cggacatcat caccaccgtt cctcagtga gacaagctta 420
cctatcctag cctaagatga tgtagtgtgg agagtcgtgc tta 463

<210> 124
<211> 383
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189003f11b1
<400> 124

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caaaataaga ggtgtggcct ggcgggggcg tctcagccag gcagcggcta ccacgggcbg 120
gcgtgccgtg gtcttcttta tgacgaatga atgaatggat ggaagtggaa tggaatgaac 180
gaatggtgtt tgatgacggc ggtgggtttg cttggccgtt ttaatttgta cagtttgttt 240
tctccccctt tgttgtggcc gcttgcggcg gcgttaattt tagttccttg aagaagatgg 300
atgatgttgt atttcggaga gatgtatgca ggccggcgcg gcgtaacgcc gctcgtttgg 360
aatcccgttg gtttttaaat taa 383

<210> 125
<211> 477
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189003g01b1
<400> 125

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catcgtccag gaacgagtgg gtgctgtgca ggggtgtcaa gaagagcctt gtaggcggcg 120
tagtgctgctc ggcgcggcg tgcgcagcag caaagaaaag cggcgtggag atgatcgagg 180

agatagggtc gtccgtggcc gccgtcaccc cgctccctgc gtccttgga atgtccggct 240
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 cgggccagtt cttcaacccg acggtgacgg gcggctgcgc cacggacacg gacaaccacg 360
 gcctagcctc gtcatactcc ccgttggtcaa gcttcacgca gtacgggtggg cagctgcacc 420
 acggcgtgag cctgagcctg gtgcagctcc tggagagcag cgggtaccac cgtggtc 477

<210> 126
 <211> 220
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189003g03b1

<400> 126

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 aaaataaaat aaaaaaaaaa aaaaaagggg gggggccttt ttaagggtcc caagtttcct 180
 cccccgggct ggcaagggtat tattttttttt tttgggcccc 220

<210> 127
 <211> 352
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189003g04b1

<400> 127

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 tgcaatatgg atgtcgtttt tgctcggtac tttggtaacg tggatgatt tgttatcagt 180
 tttcgctgtc gtggtctgga ttcgtcggtc cacataaaga agattgtgct tggtaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaatat aatggggggg gc 352

<210> 128
 <211> 292
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003g05b1

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acacaagata	acttcaaacg	aacaacacgc	caccaacaat	acttttggaa	ccaagctcgc	120
atcgtcgatt	cttcttccta	cgagaagcac	ggggaacact	acggcgacat	atactaatac	180
tgataggtat	aggtatgact	tgctgcagag	tcaggcggta	ggaaaaggag	cgaaggggaa	240
cggggcactc	agatctgacg	ggcaaagccg	tctagttggg	cttggtgggg	ca	292

<211> 187

<213> Triticum aestivum

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cccacgcgtc cgcaaaaatg gtggaccaca tatgattatt agattagggtt agaagtagcc      60
agattgaggg gtgggggtttt ttcagattct tattagatta gtagtggaat ttctgcaatt 120
ctttagggtgt ttggagtcaa atatatactt ctgcttgatg attaattaaa tggatgctta 180
gttctaa                                           187

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<211> 333

<213> Triticum aestivum

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cacacaccgc	aacaaagctc	cagctgagca	gacgcaggca	cgggggtgcc	ggcgagagtg	120
gcgctgcgtc	gctcgctcgc	tcgctgctga	cccgacactg	ggcgctcgact	ggccccgaca	180
acacttttat	ttagcccacg	tcacgcgcga	ccccgcgcat	agcgctccca	ctccacacct	240
agtaaaaagc	agtagcactc	cactccactg	gctgactcag	catcacgccg	tgccacgtag	300

gagcacacgg cgcgcgcccgt cgacgctgac cca

333

<210> 131
<211> 281
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189003g10b1

<400> 131

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tactcccaaa gttcactgtg aaacacattc tgttgcctc taacctttgt acgttatgct 120
gtataagatc tgattatcaa tttatctgtt gggaatctac ccgcctatgg gtttcctagg 180
agtacagaca gaccaggtga atacctactg ggaaattggt tgtaccatgg atctttgttt 240
gcgctgatgc agtttaacgg gaatagtggg ctttcaactt g 281

<210> 132
<211> 432
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189003g11b1

<400> 132

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gctcagcccc atggcctcca tctcgggtccc ggaccccgcc ccttccccga ccgaggatgc 120
agagagcatc agaaaagcag tgcaaggggtg ggggacggac gagaacgcgc tgatcgagat 180
cctgggccac cggacggcgg cgcagcgcgc ggagatcgcc gtcgcctacg agggcctcta 240
cgacaagccc ctccctcgca cgctccagga cgagctctcc agccacttca agggcgcgat 300
gacgctgtgg gcgatggacc cggcggcgcg ggacgccaag ctggcctaca aggccctcag 360
gaagaagggc ggcgaccggc acgcctgggt gctcatcgag gtcgcctgcg cgtcgtcgcc 420
ggaccacctc gt 432

<210> 133
<211> 366
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003h01b1

<400> 133

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gagttgagcc actgctcttc ctcttcgttc ggcgtcacct cccactccat catggcgggc 120
acagggccat agcctggagg ggcgaagtgc tcctcgtctt cgtcggcggg cgtcggcggt 180
gggaggtccg ggtaggcgag tggctcgtcg atgacctccg gtttcgggtg tggagtggcc 240
ggcggtgagg ggcacggccc gtacctgtgc acggggcaga aatcgcgggc agggcaaggt 300
ccgtatctgt gcaccggaca gaaggccacg cctgcatcca tgccgttgcc gaagaagatc 360
cctggc 366

<210> 134

<211> 477

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003h02b1

<400> 134

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ggggaggaga agctgatcat ccggccggag aagggtgcggt tcatcgacat cctgtccctg 180
ctgatcctgc gccggcccat caccagctac gccttcatcg acgccggcga ccagacgacc 240
cacgacgtcg gcgtcacgcc gggcgacatc ttcgtcgtgc tcaccagat catccagaag 300
gccctcgctg ctgcctacta cccggcaaag ataatcgggg ccatcgtcga gctcctcttc 360
aacttcttcg cctcaacgg aggcctgctc ggcacgtat ggaacatcat cagatttaag 420
ctggtgatcc cgcgccggga ggcggccaac taccggacga tgatcgggat gatcgac 477

<210> 135

<211> 355

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003h05b1

<400> 135

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cggcggccgg cgtgcagctg ggcacctcga agccgcagat cgcgaccag gcggagatgg 180
cggaggcgcg cctgcccgatc cctaccgcg accagtgcgc gcacctctc atcccgtca 240
acaagtgccg cgtcgccgag ttctacctcc cctggaagtg cgagcccag cgccactcct 300
acgagaagtg ccagtacgag ctctcatg agcggatgct ccagatgcag aagat 355

<210> 136
<211> 357
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003h06b1

<400> 136

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gtgcgcgtcg acggggccgg ggaagtctcc gtgcggcggg gcattgtccgc ggacgtggag 180
cgcgcggtca cggtgagcat ccggagggtgc aagggggccg cgcgcggtgca cggcgccgtg 240
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<210> 137
<211> 53
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003h07b1

<400> 137

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 53

<210> 138
<211> 493
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189003h09b1

<400> 138

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atcgggcaat cttattggga ataacaaggg cttccctgaa tacccaaagt ttcatatctg 120

aagcaagttt tcaagaaact gctcgagttt tagcaaaagc tgccttacga ggtcgcattg 180

attggttgaa aggcttgaaa gaaaacgtag ttctgggggg gattatacct gttggtaccg 240

gattccaaaa atttgtgcat cgttccccac aagacaagaa cctttatttc gaaataaaaa 300

aaaaaatct attcgcgtcg gaaatgagag attttttgtt tctccatata gaattagttt 360

cttcagattc tgacgtaaca aacaattttt atgagacata agaaccacca atatggtgta 420

cacacacaaa ttatgtaaaa acaatcaacc atttactgaa catttggaat aagcgtgaat 480

acatttgtagg aat 493

<210> 139

<211> 407

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189003h10b1

<400> 139

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ggccacctcc gtcgctcctt tccaggggct caagtccacc gccggcctcc ccgtcagccg 120

ccgctccaac ggcgctagcc tgggcagcgt cagcaacggt ggaaggatca ggtgcatgca 180

ggtgtggccc attgagggca tcaagaagtt cgagaccctg tcttacttgc caccgctcag 240

cacggaggcc ctctcaagc aggtcgacta cctgatccgc tccaagtggg tgccttgccct 300

cgagttcagc aaggttgggt tcatcttccg tgagcacaac gcattccctg ggtactatga 360

tggccggtac tggacaatgt ggaagctgcc tatgttcggg tgcaccg 407

<210> 140

<211> 217

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189003h11b1

<400> 140

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 gcaggaaccc gctgatgact aggaacctgg agaggaacgg caggatcacc tgcattgacgc 180
 tccccgggga ctggctgcag agggacctga acgagat 217

<210> 141
 <211> 425
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189003h12b1
 <400> 141

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 ctctttcca ggggtcaag tccaccgcg gcctccccgt cagccgccg tccaacggcg 180
 ctacgtcgg cagcgtcagc aacgggtggaa ggatcaggtg catgcaggtg tggcccatcg 240
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 ttaagcaggt cgactacctg atccgctcca agtgggtgcc ttgcctcgag ttcagcaagg 360
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 caatg 425

<210> 142
 <211> 116
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189004a02b1
 <400> 142

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 aaaaagaaac gaataaataa aaaaaaaaaac tgggtggctc ttttttgggg acccag 116

<210> 143
 <211> 478
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004a03b1

<400> 143

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tcacgcacac cttcaagcag atcggggcggc aggtctcgta cggcaccgag gtgacggcct 180
tcgtcgagga ccgcaagatg aagcgcataa ccgggggtcaa gagcaaggag ctctcatct 240
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cgcccacagg gctggggagg accttccccg tctccgcctt cgagaagcag gacgacggca 360
aggccaaggc cgcggctgcc gacggcaagg aggcgctcgt ggccaagtag gtgaggacgg 420
ccggcatact ctacaaagtt tggatgaaga gtcctcgagt ccaatattaa ctatatac 478

<210> 144

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004a05b1

<400> 144

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tcgcgcccga cgaccccgac ctcttctgca accgccccgt cccggaccgc ctctcgtcg 180
tctccgctgg ggtcatcgcc aacctcatct tcgccttctt catcatctac gccagggcgg 240
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ccggctccgc cgccgcgcgc tccgggctgc tcgccggcga tgtcatcttc gccgtccccg 360
gcgccgcgcc ggacccatcc gtgccggccc tggtcgacct catcaaattc agccccaaca 420
aga 423

<210> 145

<211> 396

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004a06b1

<400> 145

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cagtgttagc cttggcagcg tcagcaacgg tggaaggatc aggtgcatgc aggtgtggcc 180
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cctcctcaag caggtcgact acctgatccg ctccaagtgg gtgccttgcc tcgagttcag 300
caaggttggg tttatctttc gtgagcacia cgcattctct ggggtactacg atggccggta 360
ctggacaatg tggaagctga ctatgttcgg gtgcac 396

<210> 146

<211> 394

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004a07b1

<400> 146

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tcaagcaggt cgactacctg atccgctcca agtgggtgcc ttgcctcgag ttcagcaagg 300
ttgggtttat cttccgtgag cacaacgcat cccctgggta ctacgatggc cggtactgga 360
caatgtggaa gctgcctatg ttgggtgca ccga 394

<210> 147

<211> 428

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004a08b1

<400> 147

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gcagcagcaa cagcaatagc taaacgaccc agtagttcca caagtactgg cataatgcgt 180
gcttgaagat gtaggtctgg gtgcctatct tgctgttggg gctggctcct caggaatgct 240
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agcaatgtga ctaaacctgt gtgtctgaat gtaatttaag cattgattta atgtaaattt 360
aacatctatt acctttacta ttttgggtgca acccgagtct tgtgctctaa gcgcaatgat 420
ttgatggg 428

<210> 148
<211> 503
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004a10b1

<400> 148

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gccaacacca ccaacaacta gggcaacaac agttgctgga tcagatgaag ccatgtgtgg 180
ctatcgtaca acatcagtgt agcccagtga gaacaccatt cccccaaca cggggagagc 240
agcatagcag ttgccaaacc gtgcaacacc aatgctgtcg gcagctagtg cagatcccag 300
aacaagcccc gtgcaaggcc atacagagcg tggaagaggc tatcattcaa caacagcccc 360
aacaacaatg gaatgagccc caacaggaag cacaccttaa gagcatgagg atgtcgcttc 420
agaccctgcc gtctatgtgc aacatctacg ttccggtaca atgccagcaa cagcaacaac 480
tggggcgaca acaacaaca cag 503

<210> 149
<211> 383
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004b01b1

<400> 149

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gtggaagtga agaggggaaa agatacggct actcggatgt acgtacgtac tacgtagaca 360
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<210> 152
 <211> 194
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189004b04b1
 <400> 152

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 tcttagtttt gaacaaaaga aatcttattg tcttatgtaa attctgttta ccgatgtagt 120
 tggatgctac caaatggatc tttgaatgtt gaaatactga tgttttgagt cattatgtgt 180
 ttgagatccg gtac 194

<210> 153
 <211> 448
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189004b05b1
 <400> 153

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 gtcgctcctt tccaggggct caagtccacc gccggcctcc ccgtcagccg ccgctccaac 120
 ggcgctagcc tcggcagcgt cagcaacggt ggaaggatca ggtgcatgca ggtgtggccc 180
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 aaggttgggt tcatcttccg tgagcacaac gcatcccctg ggtactacga tggccggtac 360
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 gtggaggagg tcaagaagga gtaccctg 448

<210> 154
 <211> 394
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004b07b1

<400> 154

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tggtgcagc caccacctc tgctccccgc gccgagcgt cctcaagccc gcggcctcct 120

ccagctccgc gccgccgcc aggccgcagc ctcggtcctt cctcaagcag ctcccggggc 180

tcgccgcgac ggcggtgctg gcggccgtcg cctcgtgcc tctcccggcc ctggccgtgg 240

agatggagaa ggcggcgctg ttcgacttca acctgacgt cccggcgatc acgatcgagt 300

tcctgctgct gatggtggcg ctggacaagc tctacttctc gccgctgggc aagttcatgg 360

acgagcggga cgccaagatc cgcgcggagc tcgg 394

<210> 155

<211> 509

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004b08b1

<400> 155

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caagcttttg attcgccggc atactcaagc taagcttctc atggcgccgg cgtcgaaggt 180

catgagtcac atcgtccaag acggcgccat tgccacctac gccgtttacg ccgcgccgtg 240

tgatgcctgg tgcagcgggc ggcataggaa ggccgagacg gacggcgacg acgacgatga 300

cgactatgac tgcgcgcctg ccgcctgaag tgtacgtacg ttcgtacctg gtcgccggcg 360

aaacgaatct gggacctgcc cgccaagagc tagtatatat actgcgaact gatcgctgct 420

gctgtgtatg ctaatacgat gtcaagtacg taggtacgta tatgcgtctg ttacagcta 480

cttatgaatg tatccccct agtatatga 509

<210> 156

<211> 413

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004b09b1

<400> 156

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gccgcggcca gggcgtagct gggcggcacc ggcggcacca aggcgacggc gtgcatcgtg 180
tcgtcgggca tgggttttcc ggtccgggag atcaactttg ggacgggcct gccggcgcttc 240
gcttcgtacc acttcccgtg gcccgcgggc gcggcatacg tgatgccgat gccgagtgcg 300
cgcgacgacg gggaatgggt ggtgtacgtg catgcagcgc cggagctggg gaaggtgatg 360
gaggaggagc cgactgtttt caaagttctc gagaacagct acgtgttcgg atg 413

<210> 157

<211> 475

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004b11b1

<400> 157

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gaagtgtgat cctgcaatta tcttggaagg ctccagggtta atgctgtttt ccgacaaaga 180
tcctgatact gttatacttg ctccctgtac cttcagttac gcctctgctc ccgtttctca 240
gaaagaaaat caaccggata ttgttgtgct gtactaagtc tggttgcccc tgaaagtgtc 300
tgtgaggcac gggatcaata ctgtaaatct gttattcttt ggtgacgcct tcgaatagca 360
actaacatca cttagcaatg gccaacatca ttgtcttccc tgcttagatt gtcgctatct 420
catttctcaa gtatgttgga gcacagctgc tgcccttaca ttatgtactg tatgt 475

<210> 158

<211> 157

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004b12b1

<400> 158

tcattctttt ggagggggtg cgtccgtgcg tggccaggtg gcgcatgata acttggatag 420
taaggatata ttatctccac aggaagtcct caatacgata cacatagaaa ttcac 475

<210> 161
<211> 455
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004c03b1

<400> 161

gcccttggat tcgggtatgc cgctccacc ttgagtgcta cttcatcaa tggcgctcctt 60
ggccccaga ccagaccgga aaatgatacg gcgcatgt ccatctacat cgagaacatc 120
cacaagggca tccatgggag cgattcaggc gcgtatgact ctcaaggaag gttcgttccc 180
gagaagttcg aggcggcatt cgccaagcac gccaagacgg tgccggacgc cctgacgtcc 240
gcggaggtgg acgagctgat caccgcgaat cgggagccca gcgactacgc gggatgggcg 300
ggcgcgctcg cgagtgga gttgctgtac agcatcggca aggacaagga cgggctcctc 360
cgcaaggacg ccgccagggg cgtctacgac ggcagcctct tcgccagggg ggtgcaggag 420
cggaggacat ctataggaga aaccaggca tgatc 455

<210> 162
<211> 474
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004c04b1

<400> 162

ctagagccac agctacagca atggaagctc tcgctcgtc gccgcgggct ctcttcgccc 60
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ggcgtgtcaa ggccgccgcc gccgccgagc cggccggcga ggcgaagccg gctgccgcag 180
ggcgccgctc ggcaccaag aagatcctca agaagaagcc cgtatactcc atgaagaaag 240
ggcagatcgt gcgctcgag aaagaaaagt atctgaacag catcaattac ctatcagtg 300
ggcaccacc cttctacaag gggctagact acatatatga agaccgcggc gaggttttgg 360
acatcagaat ctttgaagag accggagagt atgctctgat cgcgtgggtg gggattccaa 420

ccccgccggc atggctccca acttatatgc tcatcaagtc agacaaactc gact 474

<210> 163
<211> 92
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004c06b1

<400> 163

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gccgcagctt gtgatgtgtg gaaggtgatc aa 92

<210> 164
<211> 436
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004c09b1

<400> 164

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cctcgggtgcg cgccctactg gccgcacgct ctactgtggt tcctcttctc cgtgggtgcc 180

gagcccctcg tcgatgggta cgtcctcggc atgtccctcg gtatacgcaa aatgggccgc 240

gccaaaggagg ccaggaagaa agcgggtgtga cacgcgcggt ggaagaaagg gcacgtacgg 300

tcgtaaagat ggactcagat gaatgtgtta attctacaat cttcatgacc aattgtaaca 360

cgacgaacga ctgaatgcag cctcccttgc ccttccaaac agttttatct gtattaagac 420

ttaattcgtg atattt 436

<210> 165
<211> 432
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004c10b1

<400> 165

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 cttctctac gcgcgcgagg aggagggcct cgacgtcagc ctcaccggta ccggcacgca 180
 cctccgggtc ttctgcagc ggtggatcgc ggatcatcct gaggtcgcct acaaccgcct 240
 ctacatgggg ggcgactcct actccgggta caccgtcccc gtggccgcgc tcgagatcgc 300
 cgaccagccg gataagggag gcctgaacct caagggctac ctggtgggca acgccggcac 360
 cgacgacaag tacgactccg gcggcaagat ccccttcatg caccgcatgg ggctcatctt 420
 ccacgagctc ta 432

<210> 166
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189004c11b1

<400> 166

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 tcttcttagc aagctcaagg accttcagtt ctttgttggc gagagcatgc atgatgatgg 180
 cggcgtggtg ttcgcctact acaaggaggg agctgctgat ccaactttcc tgtactttgc 240
 acatgggctg aaagaggtca agtgctaate gactgtatg ctaaaatcta tgcggtcgtc 300
 agtatTTTTG ctctgctcta tggttgtcag tcgactctcc aatgttgtgt cggttaactat 360
 cagatgttga gtgtcttgaa aactttctga taattgtggg at 402

<210> 167
 <211> 331
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189004c12b1

<400> 167

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 cgccgaggag atgctcaagg cgctctgagc cgcgctgct ctgctccttg cctgagtcgt 180

gtctagtgt cccgagtagt gaataataat ccgacgaact gttgctcgtg tgagtgtcct 240
 tcgatgcgtc gacatcgtgg agaggatttt gttttgtttt gttgagaatt gcgtgctgtc 300
 catgtgctcg atgaaatgac ttgaattttt c 331

<210> 168
 <211> 440
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189004d02b1

<400> 168

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 tgctcggcct cgccgctcgc cgtgttcgcc accatggact cgccgcccga gggctaccgc 180
 accaacgtcg gcatctgcct cgccgacccc tccctcacca agatcttctc cgcgctccagg 240
 atcgacatcc ccacggcgtg gcagatgcct cagggtggga tagaccaagg ggaagagccg 300
 cgagcagctg ccattagggg actgagggaa gaaaccggtg tcagatctgc cgagattgtc 360
 gccgaggccc ccaattgggt gacatatgat ttccccgcgg atgtcaaaga caagctgaat 420
 gctaggtggg gaaccaactg 440

<210> 169
 <211> 244
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189004d03b1

<400> 169

agtttataca gatgcaataa tatggcacac aaaaaagaag gaagtagcag ctatttataa 60
 gagcctcgca gtgtgcaata tagctacgag atcctattgt ctgttggaat ttcactttag 120
 aacggttggg tttattcttc aaacagttag cctagaagaa gatacacttg taaggcacat 180
 acataaatac aagttcaata tgtggctctga tcaaatacat atagcctacc tgatactttc 240
 gatc 244

<210> 170

<211> 439
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189004d05b1

 <400> 170

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 tgaaccacca tacacagaat atgtgtcaac tcgctggtat cgtgccccag aggttctact 120
 tcaagcttct gtttacagct cagcagttga catgtgggct atgggtgcca ttattgcaga 180
 gctttttttc gcaccgacct cttttcccag gctcaaggta cacatgatcc tttttctgct 240
 gagcctcatt tggttcccct attctcttgg ttgttgtgcc caatttaatt gaagattttt 300
 aagttggtcc taatagtttg ctgggagcta aatattaggc aaagatgctg ttgattatat 360
 atgaaataac catcatcggc cactttaata agtgaaccca ttttttgtat agtctagaaa 420
 gcaccccata atgtgaaaa 439

<210> 171
 <211> 440
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189004d06b1

 <400> 171

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 gaacttcaca gtcgtgaatg gcctgatcct gaagaaaatt tccgcaagga gcttcgcaaa 180
 tttgagaaga aatgtgatat tgctcttctt gtactcgtgc ctacaactgc tgtgctcttt 240
 atgagtatac catattacct ttagcgggtt ataagaaaca cactatctta gttttagcta 300
 tcctggttgt agtgatcgag gctttaggca ttattaagta cgtagctatg tattatcctg 360
 gtttgactcg tgtaatctga atgcacctac ttacactaaa cagtggatgc tactcgtcga 420
 attcccatgg ctgtatactc 440

<210> 172
 <211> 433
 <212> DNA

<211> 320
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189004d11b1

 <400> 175

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 ttagggacgt ggtcgtacgt gccagagtcc ccgaacaaga gtattttggg acgtattgaa 180
 gtggtgtatc gtagataatt tgtgtatgcg tgtgtaatgt ttctgctggt ggcttcgcag 240
 tgcgccagtg catgccgtga tgcttgtttt accgtacgtg tgagtcaact tctttttata 300
 gtatgtgtgt taagtaatgt 320

<210> 176
 <211> 85
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189004d12b1

 <400> 176

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 gtgccagctc agagccactt gatcc 85

<210> 177
 <211> 438
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189004e01b1

 <400> 177

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 cccgagcatg aaacagtcga ctcagaactg gtggaccata cagtacggat gatgcaataa 180
 ttgaagatat gaagaaggat tacatggctg cgcaagagat caaggagaat aacaaataag 240
 ctttatgcaa tggataatth gcaaggcaag gttctccatg cttgtatgta cgttgctgct 300

tttggaaattt ggcagttgct tactggtcat gtttggatgat tgatgctgaa ttcctagata 360
cattttgtaa acatttggat ttgtccaggc gcatgcctgt atgtactaga tgtgtacttg 420
ttttcactta tctgcaga 438

<210> 178
<211> 451
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004e02b1

<400> 178

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cgccggcgac ctcacccgcc gccgccgccg aagatgccgg tgaggggtggc cgacaccgcc 120
acccttcct cgcagacctc ctcaggacaa gatgcaaag ctgtgcagcc gtctcctcct 180
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tatttatgtg gaacgatgga ggcacttaat gttcccttag ccgacacacc tgtgggtaca 360
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gcatcagcag aggatgatgt aagacactgg t 451

<210> 179
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004e04b1

<400> 179

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ctcgatcgca atggcgctgc tcgtcgccgt ccagccggtc gccgtgcggg gcctggccgg 120
cagctccatc tccggccgca agctcgctgt ccggcccgcc tccgccgccc tctcccgtc 180
caccgcagg gctcgcgggg cggcggtggg ggccaagtac ggggagaaga gcgtctactt 240
cgacctggac gacatcgcca acacgacggg gcagtgggac ctgtacggca gcgacgcggc 300
gtcgccctac aacggcctgc agagcaagtt cttcaacacc ttcgccgcgc ccttcaccaa 360

gcgagggctg ctgctcaagg tctgtgtgct c

391

<210> 180

<211> 314

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004e05b1

<400> 180

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agctcgccag actcagactc gccagctgac tcgcctgacc ccgccgcaga cgacgaggag 120

agcggcagcg tcggcgtgag gagtggcgtg gtggcttccg tcgtggccgt ggccacctca 180

gcctccgtcg tgcttttatt ttagaacatc gtagcgatgt caaatgtact acttaggttg 240

tagacataaa cttttttggc aatctgtact cagttttggg tgaaatttca ggcgcggtg 300

agtaattatg tggc 314

<210> 181

<211> 312

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004e06b1

<400> 181

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tccaaagtat tcacagaggg tccgtttggt tgctgcgaac tatcaaatag tctaaagcca 120

taattaaagc agttactgct gtttcttggt agtggcacia ggagtataat tttgcatcaa 180

atgtgtttaa atatgtgtga tttggcctgt ccataccta gcgtgtcgca ccattgagaa 240

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gtttcgtaca tg 312

<210> 182

<211> 387

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004e09b1

<211> 472
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189004f02b1

<400> 185

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atgagggttg ctatgaaaag gaagatatac caaccgcatt ttacctgtgc cctccatggc 120
atatttaagt tgtgccaagc tattgatggc aattcaagaa gtatcgaact taagccatca 180
atggagcttg gtactgatgt cgtccttatg aacggctctc tgccaatttt ttctgaaatg 240
gataagtcaa gaactgtgat ggttgtttcc tgggtaactt ccaatatctt ctggttgtgt 300
aaacaaaagt ctgcagcgga aatgtcatgt gaagagccac taaacaatga gtgtctacta 360
tcaaagatat tgcgttggtt agtggcttct gtaatccttg gcagaatctc ccgcatctct 420
cctgaaaaga ggggaggtct tgccacgagc acaaatagtc ccggaactct tc 472

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<210> 186
 <211> 442
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189004f03b1

<400> 186

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tggggggtctg ggtgagcccg ttcgtgcacc ggtgacaggt cgcgctgcac ctcaaggggc 120
tcaccggcta cgagtacgcc gaggaggacc tcaccaacaa gagcgacctc ctctctgcct 180
ccaaccccg tccacaccaag gtccccgtgc tctccacgc cggcaagccc gtctgagagt 240
ccatgctcat cgtgcagtac ctgcagagg ccttccccgg ctccggcccc gccctctctc 300
ccgccgaccc ccacgaccgc gccgtcgtc gcttctgggc cgcctacgcc gacgaccagt 360
tctttgcctc gtggatcaag gcggtcgtgg ggacgacgga cgaggagagg gggcgggcga 420
cggaagccgc ggtggcagcg ct 442

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<210> 187
 <211> 391
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004f05b1

<400> 187

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gccaggtggt acaggttcaa ggggaccagg gatgcttgat gcaatttgga tgatcaaaag 120

aagggggtag aataaggtca ggtgattaat tcacgtgtct tataccacag tagctatttc 180

ccttttgcgt tcttataatt ttttggttct gctgttatga aatcgatcaa tcaatctata 240

gatgaagtgg gcggggaaag agaggaagaa atgtactgta gacaacagtg ggggtggttaa 300

ttccttgtaa gttgttaaaa atgaaagaaa caacaatggg gtggttgatt tcttgtaagt 360

tgttcaaattg aaagataaac gatttcactg t 391

<210> 188

<211> 425

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004f06b1

<400> 188

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cgcgcccgcc gcgccggctc gcctgcccga gatgaatgtc gacaagctga agaagatggc 120

cggtgccgtg cgcaccgggg gcaagggcag cgtgcgcagg aagaagaagg ccgttcacaa 180

gaccacgacc accgatgaca agaggctcca aagcaccttg aaaagagtag gagtcaacac 240

cattcctggt attgaagagg tcaacatttt caaggatgat gtagtcatcc aatttcagaa 300

cccgaagtgt caagcatcta ttgctgcaaa cacatggggt gtcagtggaa caccacagac 360

gaaaaagctg caagatttac tgccgacaat tatcaaccaa ctgggccctg ataacttga 420

caacc 425

<210> 189

<211> 348

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004f07b1

<400> 189

catatacttg agagagcgca cgcgagatgg cagcctccat gatcacctcg ccgattgtgg 60
cgccgacgag cgtgccgtcc ctctcccgcc ggggctcctc cttcgccgtc gtctgcagcg 120
gtggcaagaa gatcaaggctc gataagcccc tcggactcgg aggcgggttg acagtcgaca 180
tcgacaccaa cggcaggaag gtcggcatga agggcgtgta ccagtttggt gacaagtacg 240
gtgccaacgt cgacgggtac agcccaatct acacgccaga ggaatggtct gagtctggtg 300
accgctacgc cggcggaacg accgggctta ttatatgggc cgtcaccc 348

<210> 190

<211> 334

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004f09b1

<400> 190

gcttcgtctg cgattgcacc tggaccggcc cctggagagc ccgtaatgga cagcggcacc 60
gcagtagtgg cctcgtcaca tgggcgcgcc ttgatgttgg tggtttctag cacaacactt 120
gcattgatgg ggacgattcg ggcctgaatg cgtgtgtgag acacaatgcg gcgtggcatt 180
gtaggtcgtc tagttcagat tctttagcat ggtaatttc ttagttgcag atcgagccgt 240
acggtatgat agttagagaa tgtgtgcagt ttgagtttct tattggtgaa cacaataaat 300
atttttcaag acaattattg cttgctccag agta 334

<210> 191

<211> 471

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004f11b1

<400> 191

cggacgcgtg ggccgatgac cagtcgtgtg gtgacgctgt ggtaccggcc accagagctg 60
ctgttgggtg ctacggatta tggagtaggt gtcgacttgt ggagtgccgg atgtatcctt 120
gccgagttgc tggctgggaa gcctattatg ccgggacgga ccgaggtaga acaattgcat 180
aaaatattta agctatgcgg atcccccgct gaagaatatt ggaaaaagtc aaagctgcct 240

catgcaacca tattttaagcc ccagcagccg tacaaaaggc gaatagcaga gacattcaaa 300
gatttccccgc aatcagcact tcggctgatt gaaacactcc tatcaattga tcccgccgat 360
cgtttaacag caactgatgc attaaatagt gatttcttta aaacggaacc tcgtgcttgc 420
gatccatcaa gtctgccaca ataccaccca agcaaagaga tggatgcaaa a 471

<210> 192
<211> 368
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004f12b1

<400> 192

ctctcgctc cgattactgc aaagctgcca cggacgccgg gaacctcgac gcatgctacc 60
ttcttggcat gatccgggtc tactgcctgg ggagccgggg gtcgggagcg gcgctcatgg 120
cggcgggcggc ggtcgggtggc caccgggagg cgctctactc gctggccgctc atccaattca 180
acggcagtggt tggcagtaag gacgaccgag acctccgagc gggcgctgcg ctgtgcgcgc 240
gcgcgggtgct gctcggacac gtagacgccc tccgcgagct cggccactgc cttcaggacg 300
gctacggcgt gcgccgctcc ttgctcgacg ggcgccgtct cctcatccag gcgaacgcgc 360
gggagctc 368

<210> 193
<211> 408
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004g01b1

<400> 193

ccctcgcgctc cgccacgcg tccgggaaga tgttttgata cagtgttgta agagtctgtc 60
cctgcttcct tgtgacacta ttatattctt gtctttatgt tattccgctg cagtactact 120
ctatcactag atgcaaaaat tagctggatg tatggaattt ggggaggcag cccaaacaca 180
agacatttat ctttagctgt gctattctcc ataagatgcg gtgtcttttg catttaactt 240
gtgattgccc ttttggttgt cgaatgcagc tgaaccttac tatctatgca attatgtcaa 300
acattacagt ttacagcttc tctgtatgcc ttctgttgtt ttgtactttg ttctggagcg 360

ttttattgta ccagcctgca agctaaagtg aaaggagtaa cacttggt

408

<210> 194
<211> 467
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004g02b1

<400> 194

tggttgaatg ctgcttcttc tcttgtcagg tggctgtccg agatggaaac aaagggttcc 60
tctggtgggt tgaaggcaca agaacaggaa ataaagttcc ataatccgaa gtttgtttct 120
ctgctaaacc atttacggtt ctacatccct caaatactcc ccaatctgga gaaggtgggt 180
tttcttgatg atgatgttgt ggtgcaaaag gacttgacac agcttttttc catagaattg 240
catggcaatg ttataggagc agtggagact tgtttagagt catttcatcg gtatcacaaa 300
tatcttaatt tctcgcaacc aataatcagc tcaaagattg atccacatac ttgtgggtgg 360
gcttttgga tgaacatatt tgacctaatt gcttggagga aagcaaattgc aacatcgctc 420
tatcattatt ggcaggagca aaatgctgat caactgcttt ggagaac 467

<210> 195
<211> 489
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004g03b1

<400> 195

cccacgcgtc cgcttttcgg gatcacagac tatcagatcg atattgctat gcgggagaat 60
gccaaaattc tatacgcgtt agagctcaag tctattggaa gaggtcttga cataggcacg 120
ctcattgaag tgaggagagt acaacttgca tataaacttt ttgatgaggt tgctgctgac 180
atgttcaagg agcatgccaa gaagttgggt caagaaaaca tttcatctgc tttatccata 240
ttgaagtcca ataccagtgc agggaacatt cccacagagg tcattagtga ggtgaatagt 300
atccttgcat tcaataagtt gctaacagtt ctaagcaagt ttcctcaagg cgaccgattt 360
gcacgtgggc taggacctat ctcgtagct ggagattttg atcatgataa aatgggttgg 420
gatctaaaga tactctatgc ggcctatata acagaagtac tttcagatgg acgtcttgat 480

<210> 196
 <211> 189
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189004g04b1
 <400> 196

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 aacctactat gtctcaacct accgttactt acacgatcgg gatgtatgta gtaaaaacgc 120
 gccaaatatt ttcccaggga catacgtggt tgatatacaa ttgatattac agacgtttat 180
 ttaaagttg 189

<210> 197
 <211> 334
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189004g05b1
 <400> 197

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 ccgccagaac ttcatggtca agaaccctg aatgggcgcc gcggcggcgc aagctcgacc 120
 agggttatgc tcccaccatg cagacaaaga ttcctttgta gggttttgaa ctagttccta 180
 ataaaaggga ctttaaaggc cgggtatact attttgtttt acgaatttca gtttcgggga 240
 gcaactttgg ggggctttac cgatcgctcg ctgcctttc gatgaactat gttcctcggc 300
 gaaatttccc acgaggcagg aaaataactg catt 334

<210> 198
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189004g08b1
 <400> 198

ccctttcgtc cggatgatcc gagcgggtgca ggctcgtcacc agggttgaga gccccgggc 60

tgcgcgggcg tcggtggccg gctacgccag ccgctgcggc tactccacgg cctcgagctc 120
 ccagaggttg gctggaaagg tggccgtgat taccggcggg gccagcggca tcggcaaggc 180
 gacggcggag gagttcgtca ggaacggcgc caaggtcgtc ctgccgacg tccaggacga 240
 cctggggccgc gccgtggcgg ccgagctcgg gccggacgcg gcatgctaca cgcactgcga 300
 cgtgaccgag gaggcgcagg tcgccgcggc ggtggacctc gccgtggccc gccacggcaa 360
 gctggacatc atgctcaaca acgccggcat cgtgggctcc ctggcgcgtc cccggctgag 420
 cgatct 426

<210> 199
 <211> 392
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189004g09b1
 <400> 199

cactcttctg catagctccc agcccagctt attcctctt ccacgcttcc attccatcac 60
 cacactgacc acgcgccacc acgagcaaca cccatggcgc gcaccggcgc cgccgctgcc 120
 ctcttcgtgc tcgtctgctg cctcctcgtc ggctctgtcc cggcgcgcct ccccgctcag 180
 cttccgacgc aggtggtacc cgaagccggt gacctcctgg ccaccgccga gccgcttctg 240
 gccaaagcagt tggcggctgc cgaggcggcc aaccggacca aagtccactc catgataaca 300
 gaggaggagg agaatggtgg ttcacccggc ccgccagcgc cccagatca tccggtgcgg 360
 cggcggagac gacgtggcgg tctccgacga gt 392

<210> 200
 <211> 473
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189004g10b1
 <400> 200

ctttgcattg ggatatggtg agttcaagtg tgcggaaatc ctcttgagg cgggtgctgc 60
 tgtagatgcc atggataaga acaagaacac cccactgcat tacgtgctg gctatggccg 120
 gaaagagtgt gtggatcttc tgttgaagca cggtgctgct gtcactctcc aaaacatgga 180

tggaagacg cccatcgacg tcgccaagct caacaaccag gacgaggtcc tcaagctgct 240
 cgagaaggac gtgttcctgt aaatcacttc acttggcccc catgaagaga catcatgttt 300
 tacatccctt ggcatctggt ttatatagtc atacacgaat cggcatttta ttcgttgtgt 360
 aagaatctac tgtagctag cctgcaggcc gactggctga ggtagaact gcatgttact 420
 gtatatggag acctgtgtat cgtccacttt gtttctggtg attccactag agt 473

<210> 201
 <211> 135
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189004g12b1

<400> 201

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 aagtacaaga gctacttgga tgctttccag cagatcctga agaaggaggg tgccaagtcc 120
 ctcttcaagg gggct 135

<210> 202
 <211> 412
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189004h02b1

<400> 202

cccacgcgtc cgccccaaatc cccacccga accctcgga tccctctctc gccgccgctg 60
 acccctccgc cgatctcccc gccgccgacg agatgtctcg ccgctacgac agccgcacca 120
 cgatcttctc gccggagggc cggctgtacc aggtggagta cgcgatggag gcgatcgga 180
 tcatgtccga cgccaacatc ctcatcaaca ccgccgcct ccacgccag cgctacgcgc 240
 tctcctacca ggagcccatc cccgtcgagc agctcgcca gtccctctgc gacaccaagc 300
 agggctacac ccagttcggg ggctccgcc ccttcggcgt ctcttctctc ttcgcggggt 360
 gggacaagaa ccacggcttc cagctctaca tgagcgaccc ctcgggcaac ta 412

<210> 203
 <211> 425
 <212> DNA

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<223> Clone ID: uC-tsfl1189004h07b1

<400> 205

aatttttatta aaaaaaaaaa aaaataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaataaaaa aaaaaaaaaa aaaaaggggc ggc 103

<210> 206

<211> 422

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004h08b1

<400> 206

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cgacgttgag gccaccgccc ggcgcggct catggtcatg cccaccgcct cccacaagg 180

gagctccggc gggttcgaga cggcggcgg ggagaccggc ggctgcgact gcaccacctg 240

caagtgcggc acggcctgcg gctgctcctg ctgcagctgc aactgagccg gcgcccagga 300

ggcggcggc cgaggcgagc acgaggatga ggaggacaac tggacaagca accaccacca 360

ccaccaccac catcactagc cgctgcatgc gcccgcccgc gcgcgcgctg aataaaataa 420

aa 422

<210> 207

<211> 485

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189004h09b1

<400> 207

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aatccgtggt gaagctcaag ggccttgaca tcgacaccat caaccagaac tacaccgtgt 120

gaggagtatc gacattggac caacaaacat gacatccgta ttggagcgag attggaatgg 180

agctccgctt taagatTTTT cgggtgaatg aatgaaacaa acatggctga tctgaccagc 240

ccctagtgtg aaagtgtac caaatatatg gtttcgggtg tccgtcttct agagagggtt 300

atccccctggg tactacgatg gccggtactg gacaatgtgg aagctgccta tgttcgggtg 420
caccgacgcc acacaggtga tc 442

<210> 210
<211> 439
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189004h12b1

<400> 210

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aaccagcaac atgaagtttg caatgaatgg ttgtattctt attggaactt tggatggtgc 120
gaatgtggag atcagagaag aggttggaga ggagaacttt ttctcttttg gtgcacatgc 180
acctgaaatc gctggtttga ggcaagagag ggctgaagga aagtttgtgc ctgacccgag 240
atltgaagag gttaaggaat acgtccgcag tggcgtcttt gggactagca actatgatga 300
attgatgggt tctttggaag gaaatgaagg ttatggacgt gcagattatt ttcttgttgg 360
caaggatltt cccagttaca ttgaatgcca gcaaaaagtt gatgaagcat accgagatca 420
gaagctatgg acaagaatg 439

<210> 211
<211> 411
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005a04b1

<400> 211

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tccgcgtca ccaacgtgag cctgtctacc ttcgcgccca cggccagggg cgacgtcctg 120
gcgaggccgc aggtggcccc cgcccgcgtc accttcccga cggcgtaccg cggcagcggc 180
gccctctcct gcagggcggg cgggcccggc acgccgccgg gcattctccga caagatgtcg 240
gacagcatca aggaggccca ggagacgtgc tcggaggacg ccgccagcgg ggagtgcgcc 300
gcggcgtggg acgaggtgga ggagctcatc gccgcggcca gccacgcccg ggacaagctc 360
aaggactcgg acccgctcga gaactactgc aaggagaacc ccgagaccga c 411

<210> 212
 <211> 291
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189005a05b1

 <400> 212

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 aagaaggact acagcttcga cgtggagaag gacggcgaga ccgcggagct cgacaccaag 120
 gtgaactccg cgtcggtcac ctacaccatg aaggacgacg acccgctcgc cgtctacgcc 180
 atctccaagt tgctgcagac caaggtgctg ttcaagatcg ccaaggacat ggcccccgcg 240
 ccggcgcctg agggcccca gaagtagaag accaccaaga agaagccctc c 291

<210> 213
 <211> 138
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189005a06b1

 <400> 213

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 gggggggccgt tttaaagg 138

<210> 214
 <211> 468
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189005a08b1

 <400> 214

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 ccggagcaat cagacctttt ggtaaaagag tgaaagggtg gcaatcctgc atgagaagat 120
 ccctggtatt tttgcccgc aacatcttca tgagtgccag cgaagttatt cactgtttgc 180
 catgaaggac acagttacgc agggggggaca atcctttgat atgtatcgct catgttatct 240

gtagctttct aatggattag gtagagcgtg gttggcatct acatcaaaac ttgtcttttg 300
 ttcacctcaa gttctagttg gatttcacac cctgttttat acatagataa ataccatttg 360
 gttcaaaatg caacttctgc aagtatgcct ttctaatttt tgttttccac ttgatgttga 420
 catacgtgga tctgggttac ccttacctta tgatactata tcatttct 468

<210> 215
 <211> 349
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189005b01b1
 <400> 215

ggcggttcgg ctgctgcaga agggtcactt gccaaactagt cggtattgta tttgaggaga 60
 aaactcccga ggagcttcag aaccatgcta ccgttaagcc ctgagtgggtg gaactactac 120
 tggaaatatt caaatactgt gatttttatt tgatggaaac tgtacttgat gataagagtg 180
 aggagaatgc tcttatggcc ctggagaaaag ccgggctttt caataccggt ggcttgatga 240
 aagaaaaggt actcttttgc agcagtgaag taggccgaac ttcgtttgtt cgacagttgg 300
 agtcagattt ccacatcgac gcaagccttg agataatttc ccaactatc 349

<210> 216
 <211> 82
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189005b03b1
 <400> 216

cccacgcgtc cgacctgtac tgtgctactc tgtgacctgc attgtctcca tttttctgcg 60
 atctaataca tgggctcacc ta 82

<210> 217
 <211> 398
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189005b05b1
 <400> 217

ctgagaggca cccagcagca acagccggct aggccaccgt actacggact ccggagcagc 60
agacatggca tccacgatca tggccgccgc ctcccgcgcc gttgtcgcca agacgccgtt 120
cctcagcggc cagggccgcg ccgccagcgc cagccccctg cgcgacatcg ccgccgcggc 180
caacggcaga atcaccatgg gcaacgactt gtggtacggc ccggaccgcg tcaagtacct 240
gggccccctt tccgcgcaga cgcgcgtcta cctgaacggc gagttccccg gcgactacgg 300
ctgggacacc gccgggcttt ctgccgaccc ggaggcgctt gctaggaaca gggcgctgga 360
ggtgatccac gggcgggtgg cgatgctcgg cgctcttg 398

<210> 218
<211> 81
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005b06b1

<400> 218

attagtttat atgctatatg aaactgacat cttcttggga taaacattta cttacacgca 60
aaaaaaaaa aataaaccaa g 81

<210> 219
<211> 412
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005b07b1

<400> 219

cgcaaactag caagcatgaa agcaggctac acacaaaaaa ctgcttcacc tttoctgac 60
atgctggctt ttcgcaaggc caaggcaagg ctccgtggcc gtcttcgcct actaatctcc 120
ggtggtgcac ccttaagtac tgaaattgaa gagttcatga gagtgaccag ctgtgcatac 180
tttatccaag gctatggttt aacagaaaca ttgggaccta gcacagtcgg ttacctgat 240
gatatgtccc tgggtggaac tgccggtggt gccgccacct tcaactgaact gcgactggaa 300
gaagtacctg agatgggtta tgatccactt ggtgttcctt ctctgtgtga aattctcatt 360
agagggtcta ctgtcttcac tgggtactac aaaaatcctg agctcacaaa tg 412

<210> 220

<211> 110
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189005b08b1

 <400> 220

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 caaaaaaaca aaacagacaa aaacaaaaaa aaaaaaaaaa aaaaataaag 110

<210> 221
 <211> 441
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189005b09b1

 <400> 221

 gatgacttca tgtggttcaa gggagacact ctctccggg gctactggaa atagttcacc 60
 tatcagtact gggctgaagg caggaaatgc gtctgatggt tctggttcat caatctgcat 120
 tggattctca tcccagggtc atgaggcttc tgaccttggga ttggaagctg ggcactgcaa 180
 ggtatttatg gaatcggagg atgttggtcg caccatcgac ttgtctgtct ttgggtcata 240
 cgacgagttg tatggccgtc tggctgacat gtttgggac gagaaggaag aaatcataag 300
 ccatcttcgt taccgtgaca cagctggtgc cgcatgcac actgggggat taccattcag 360
 cgacttcatg aaagtggcac ggaggctgac gataataagt ggcgaaaagg gagggctggc 420
 gaaacctctc atcgaatgca t 441

<210> 222
 <211> 148
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189005c01b1

 <400> 222

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 tgcagaatcc cgcgaacat cgagtctttg aacgcaagtt gcgcccagg ccactcggcc 120
 gagggcacgc ctgcctgggc gtcacgcc 148

<210> 223
 <211> 415
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189005c02b1

 <400> 223

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 gaggtggacc caacacaggt ccatgagagc ctacaaagga tacgtgaaag gaagcttggt 120
 aacttcgtag agtggggacc tgcaagcatt caggttgcac tgtcaagaaa atcaccatat 180
 gttcaaacca cccacagggg tagtggtttg atgtagcaa atcatactag catccgtcac 240
 ttattcagca aatgtctggg gcagtatgaa aagctgagga aaaagcaagc ctttcttgac 300
 aactacagga agttcccgat gtttgcggaac aatgatctct ctgaatttga tgaatctcga 360
 gaaattatag agggctctggg tgatgaatac aaggcttgcg aatcacctga ctaca 415

<210> 224
 <211> 78
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189005c03b1

 <400> 224

 caaatttatt tgaaatttct ctgcaactaa catctaccag gtcacaaat ttacagctac 60
 tgtagctttt gtgaaaaa 78

<210> 225
 <211> 271
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189005c04b1

 <400> 225

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 accagccatc taccagaagc catgattgta agcattcgga ccgtgcggct tcttgcatgt 120
 gtttttggca gtaaaaagac gaagtgcga gtggtagtct cgagtgtctg acccatgtat 180

acatgtagca tggattatta agctgtaata tgtatagtcg attaaatgag ccgcgaggca 240
gaattttctt ggctaaaaaa aaaaaaacta a 271

<210> 226
<211> 328
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005c05b1

<400> 226

cagctgttgc tgctcctgct gcagctgcta gatccatcat cgatcatgca tgcaccgtgc 60
cgtgcgtgca tcatcgatcg tatcgatcta ctactaccat accatgtaac cgcaacctga 120
tcgagggcct ttatgtacgc acctgacctg catcagcagt cagggtgcat gccatgattg 180
taaacaggcc cccctaaata aaacctccct tgattaacta tacatgtgtc gtctgtggta 240
tgcataatc atcaccttct ttttcttctt caaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaataa 328

<210> 227
<211> 464
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005c08b1

<400> 227

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ggcaggaagt actgcagggc tgcaaactgg ttttcagtcg agtggtcccg tccgattgcc 120
ggccgcagca tcagataatg tggaagatgg ccgagcagct gggcgccgct tgctgctcgg 180
agggtgatcc cagcgttacg catgtggtcg ccgtgcatgc cggaacggag aaggcccgct 240
gggctgtcaa acacaagaag tttttgctcc acccccgctg gatcgaggcc tgcaattatc 300
gttggcaccg ccagcgggag gaagatttcc ctgtacctgg cctcaaggag ggcaagggca 360
aggaaaaagt tgagagaat gccacactgt aactgagtat aactgactca tctagtgttc 420
gtgtactacc atgattgaag atgaatagat tgaaagtttt ttgt 464

<210> 228

<211> 105
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189005d01b1

 <400> 228

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 cgccactttt gtcattgtgt tgtgaaggcc ttatctgatt ctagt 105

<210> 229
 <211> 375
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189005d02b1

 <400> 229

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 actttgattc aaagcattac acacagtggg tcatgcagca caaactaaaa cgcaaagcag 120
 gtgttgccgc acagcagcag cattctcgcc tccatacaca ggcggatacc acagtgacca 180
 tccacacata ataccactgt ccaccacaag ccaaacaaga cactacaacg agatactgac 240
 tcctacagct attaggtaat aatagaactc cgggtagctc ttattgttac tgcgtcggga 300
 tgggctgcat ctcaggagct gtggcaggcg cagtgtcggc ggccggggtg gcgaaaaccc 360
 ttgcaatgcg ctcag 375

<210> 230
 <211> 335
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189005d03b1

 <400> 230

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 ttggtggagg aacttttagga catccttggg gaaatgcacc tgggtgcagca gctaactcag 120
 tggctttaga agcctgtgta caagctcgta acgaaggcg cgatcttgct cggaaggta 180
 atgaaattat ccgagcagct tgcaaatgga gtcctgaact agccgcagct tgtgaagtat 240

ggaaggcgat caaattcgag ttcgagccgg tagatactat tgataagtag ataaaactaa 300
agataaagaa gagaaggtat aaataaaaaa gaaac 335

<210> 231
<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189005d05b1

<400> 231

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ctacaaattc aagcatccgc atcgtttaact caactgcagc atacacacgc tgattgtatt 120
cctgagctgt ccgtaagcac tgctgggact actgagaatg aaaaaagcat tcagcaagct 180
cctcacagtt cgaaagacgt ccaaagcaag tcccatgggtg cttccacaag gagttgcaca 240
aaggttcaca agcaaggtgt tgcacttggt agatcagtgg atctgtcaaa gtttggtgac 300
tatgacgaac tcacagctga gctagacagg atgtttgagt ttgatgggtga actgatgtct 360
tcaaacaaag attggcagat tgtgtatact gatcctgagg gtgacatgat gctggtggga 420
gatgatccat gggaggagtt ct 442

<210> 232
<211> 337
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189005d06b1

<400> 232

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gagaggaaga ttgccaggag ggaggagaga ttggctcagg gcccgagaga tcatgcacca 120
gcaccagcgg ctgcagctcc cgctcaggca gcagctgcac ctaagaaggc caagaagtga 180
aggtctgata agaagcttta tctttctggt aatatcaagg gttagcctaa ttttgaaca 240
tcagaagttc agaactgttt tctgtgcaat atcttgtttg tgtcagcgtg tcagatacct 300
taaatatcat atcgtgtttg ttcaaaaaa aaaataa 337

<210> 233

<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005d08b1

<400> 233

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cccagcgatt gtccttgcta aggttgatgc caacgatgag aagaacaagc cgcttgcggg 120
caagtacgag gtccagggt tccctaccct caagatcttc aggaacgggg gaaagaacat 180
ccaggaatac aagggcccca gggaggctga gggaattgtc gagtacttga agaagcaggt 240
tggccctgct tccaaggaga tcaaggcacc tgaagatgcc acttaccttg aagacggcaa 300
gatccacatt gttggtgttt tctactgaatt cagcggcact gagtttataa acttccttga 360
ggttgctgag aagctgaggt ctgattatga ctctggccac accgtgcatg ccaacca 417

<210> 234
<211> 447
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005e01b1

<400> 234

cccactcttc cggcctcatc caaaaccgga aactcaaaga gagcgcagca accgtcagag 60
cccgactagt cgaaggccac agccatggcc gccctaccg gcacttccat gctgagcgcc 120
ctgctccagc ttcccctggc cccgttctcg cggaagagct ccgcgccctc ggcgggtccac 180
atgaccgccc gccgcgcgcc gacgtccgtg ctggccgcca agggctataa cgtgcagatc 240
gtggtggacg agaacgaggg ggaggactcc atcttcgggc ggttcgggcg ggaggtgatg 300
aaggccggcc tgctccagga gatcaagcgc cgccggcggc atgagaacac caaggacaag 360
aagatccgca aggcccgcga ggccggccgc cgcaaccgcc gcaggcgtat gatggatgat 420
cgtaggttcc cagaagatga gggagac 447

<210> 235
<211> 373
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189005e02b1

<400> 235

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gctcgtcgcc gtccagccgg tgcgcgtgcg gggcctggcc ggcagctcca tctccggccg 120
caagctcgcc gtccggcccg cctccgccgt cgtctccgc tccaccgca gggctcgcg 180
ggcggcggtg gtggccaagt acggggagaa gagcgtctac ttcgacctgg acgacatcg 240
caacacgacg gggcagtggg acctgtacgg cagcgacgcg gcgtcgccct acaacggcct 300
gcagagcaag ttcttcaaca ccttcgccgc gcccttcacc aagcgagggc tgctgctcaa 360
ggtcctgctg ctc 373

<210> 236

<211> 199

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189005e03b1

<400> 236

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cggcggaagg atcagatgca tgcattgtcg gccgattgcg ggcattcaaga tgttcgagac 120
cctgtcttac ttgccacccc tctccagtga ggccctccta aagcaggtcg actacctgat 180
ccgatccaag tgggtgccc 199

<210> 237

<211> 59

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189005e04b1

<400> 237

cttatgctga tatgctatat gaactgccat ccttcttggg taaacattta cttacacgc 59

<210> 238

<211> 356

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005e06b1

<400> 238

ggatcattaa ggggtcagat gcagtgggcc tcgctccgag ggccgccgag aagagtaaga 60
accagaagta gcaagaacga tgaacccgat ctgtttcctt tcttgcgac gcattctaca 120
agggtgatgg actttatgtg tgatgagaaa gggatttact tatatatata acctacgtgt 180
attctctttg ttatttcctt gtatgttcgt tcggaacaag catgttagat tgtgtaagct 240
gatgtgtgtg tatctactac tactgcacta ctttgatttg attcgcgtgt gttgtatgcg 300
gtttccgttg taaattgggtg tgctctgtct gtaccgcaaa ctcttttctt tcatct 356

<210> 239

<211> 436

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005e08b1

<400> 239

gttcatttag accaaccgc tgctcaacaa ggtggacggc cgggtccgt ccacgggagg 60
caccgcctcc aggaaggccg gcggcaccac ctccggcaag aagcccgcgg ccggcagcga 120
gggcggcggc gggttcaacc tcggcggcct ctccgccaag aaaggctgaa ctacataagc 180
acgtgcgcgc gcttgggtgc gtgcttcgat ctcatagctc gatttattgc tgtaactcca 240
tggaatacat cgcagagatc tgcatatatg tacacgcggg gtaactactc aaatgattct 300
tgctgtgatg ctttatagat ttgtattctt cttcacacaa cttctggagt aatttctctc 360
aaaggctcag tatgtcatat acccatgtta agctttgctt tgctaagatc ccaataccga 420
caacctttat atctct 436

<210> 240

<211> 314

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005f01b1

<400> 240

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acggcttctg catgagccgc tgcgggtccc acggcgcctc cccgcgggtcc cgcgcggggc 120
 ggttcgcgta cgtgtgggtg ggcaaccgg cgacgcagtg cgcggggcag tgtgctggc 180
 cgttcacca gccgcagtac ggcccgaga tggcaccct cgcgcggccc aacggcgacg 240
 tcggcgtcga cggcatggtg gtgtccctcg cgtccatggt cgtcggcacc gtcaccaacc 300
 ccttcggcaa cggc 314

<210> 241
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189005f04b1
 <400> 241

gttccgtgag tgcgagctca tccacggccg ctgggccatg ctgccaccc tcggcgcct 60
 caccgtcgag tggctcaccg gcgtcacctg gcaggacgcc ggcaagggtg agctggtgga 120
 cgggtcgtcg tacctggggc agccgctgcc gttcacgctc accacgttga tctggatcga 180
 ggtgctggtg atcgggtaca tcgagttcca gcgcaacgcg gagctggacc cggagaggag 240
 gctctacccc ggtggctcct acttcgacct gctgggactc gcggcggacc cgggtaagaa 300
 ggagactctg cagctggcgg agatcaagca cgcgcgcctc gccatggtcg ccttcctcgg 360
 cttcgccgtg caggccgccc ccaccggcaa ggggcccactc aacaactggg ccacca 417

<210> 242
 <211> 106
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189005f05b1
 <400> 242

ggtcgttgta gcggtgaaaa aataaagtga catgcagtat catgtaagaa cccgaactat 60
 actagttcaa acatgggaat aaaagacaaa cacatgtctt gtctac 106

<210> 243
 <211> 353
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189005f06b1

<400> 243

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tcggggccgcg gcaagggagg caaggggctc ggcaagggcg gcgcgaagcg ccaccggaag 120
gtgctccgcg acaacatcca gggcatcacc aagccggcga tccggcggtt ggcgcgcaag 180
ggcggcggtga agcgcatacta ggggctcatc tacgaggaga cccgcggcgt gctcaagatc 240
ttctctgaga acgtcatccg cgacgccgtg acctacaccg agcacgcccg ccgcaagacc 300
gtcaccgtca tggacgtcgt ctacgcgtc aagcgctgt gccgcaccct cta 353

<210> 244

<211> 135

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005f07b1

<400> 244

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agaacgaacg agaaaaatgc cgcgccacct gctgcagcag tccgtcgacc gcctcgccgc 120
gctggccgcg cctcc 135

<210> 245

<211> 119

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005f08b1

<400> 245

gtccatgttc actccccccc cctcccaagt atgatggact tggggtgctc aacattgata 60
aatttgcgca aaaaaaaaaa aaaaaaata aaaacaaaaa aaaaatacaa acaaacaaa 119

<210> 246

<211> 422

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005f09b1

<400> 246

ttcgccgtcc tcaccagga ggagttcctg gctaggtacg cgtcgtccta cgacgctgcc 60
ggtgatgata caggcattac gttgcctgtg ggcggcggcg acgccgagct gtggtcgtcc 120
ggcggcgacg atggtagctc cttggaggct cgcctccca gctgggactg gagatccaag 180
ggcgccgtca caccggtcaa gtcccaaggc gcaggatgcg ctagctgctg ggcgttcgtg 240
acggttgca cgatcgagac tctgaactgg atcaggacgg ggagtttgt gccctctcg 300
gagcagcagc tggaggactg tgaccagtac gacggcgggt gtaaccgcgg gtcctatcac 360
agggcttaca attggattgt ggagaatggc ggcctcacca cggcagcgga ttaccgtac 420
ac 422

<210> 247

<211> 385

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005g02b1

<400> 247

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caagtgctag ctagctaate gatcagccag ccatggcgga ggagaagcac caccaccacc 120
tggtccacca caagaaggag ggcgaggact tccagcccgc cgctgacggc ggcgtcgaca 180
tgtacgggta ctcgaccgag acggtggtga ccgccaccgg caacgagggc gactacgagc 240
ggatcaccaa ggaggagaag caccacaagc acaaggagca cctcggcgag atgggcgccc 300
ccgccgccgg agccttcgcc ctctacgaga agcacgaggc gaagaaggac ccggagcacg 360
cgcacaaagca caagatcgag gagga 385

<210> 248

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005g03b1

<400> 248

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ccctttgccc tcccctaccc ggcggtattcc ctccccgagc tcggcaatgg caaacgcttc 120
atcaggagct gggatccatg atgactgcaa gctgagggttc gtggagctca agtccaagag 180
gatgcaccgc ttcataacct acaggctgga gaaccagaag gaggtcattg tggaccaaac 240
tggggagcgt gaggcaacct atgaggactt caccaagacc ctccctgaga acgactgccg 300
attcgcagtg tttgacttcg acttcaccac cccggaggat gtgccaaaga gcaggatctt 360
ctatatcttc tggccccccg acacggcaaa ggtgaggagc aagatgacgt acgcgagcac 420
caa 423

<210> 249
<211> 194
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005g04b1

<400> 249

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cacgccgtgc gccagctgcc cgtgcccttc cggggcgccc agatccgtcg tcgcaagctg 120
caccgcccc cttctgcgga cggggccgtc ggctcctct cctcggagag ggccgtcgat 180
agatgccctc tcga 194

<210> 250
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005g05b1

<400> 250

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ctcgcggcgt ccctccgcgc catgggccac gacgccgcgc tctgcctctc ccgtggggac 180
aagtcgtcgt cccacccccg cggcgagcac gcctacgtgg acgtcctcct ccccgccggc 240
tcggagcgcg gcgaccgcga gcgcgtgctg gtggacgtcg acttcaggtc ccagttcgag 300
gtggcacggc ccaccaaggc ctaccgcgcc gtgctgcagc ggctcccgtc ggcgttcgtc 360

ggcaaggagg accggctgcg cctgctggtg

390

<210> 251
<211> 419
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005g06b1

<400> 251

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gtgcaagatg taccctgaca tggacgaggg agtgaacacc gcctcccaga ccctcatcat 180
gggcgtggcc cctccaagg gcaccccgtc gttcgaggcc gccgtcgaga acggaggggtg 240
caagtgcggc cccaactgca cctgcaaccc gtgcacctgc aagtgatcca tgaggcctca 300
atcaaatacag atcaaggaga tggcatggat ggacctgatg aaggagcgag tagtagttat 360
gcatgaatcg caagcgtgtg tttcgtttta aattgccacc cagaataaga cgagatcta 419

<210> 252
<211> 321
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005g08b1

<400> 252

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cgatggcgcc gtccctccgc accaccgtcc tgctcctcct ctctcctcct gccgcctctt 120
ctcaggcgga ggcggcacaa gggcgaggagg acggcatccg tgtcctctcc gccgagaaaa 180
ggatcgacct caccggcccc attgtcaagg tcttctcac cctcaaggtc cagaacgccg 240
ccaccggcgc cgacgcctca cacgtcctca tcgccttcac gcctgccgag gccgaccacc 300
tcgccatcgt caaggccacc c 321

<210> 253
<211> 470
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl189005g09b1

<400> 253

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tcgtcgaccc gccgcgccgc cgtcgccctcc gggctccgcc tccgcccgtc gccctcgcgc 120
ttctcacagg ctgcgaggag agtgcgcggt ggcgctggcg ccgccggggg ggtgccacgg 180
ctgcgggtgg tgcgatgcat ggcggcgctc gaggccgcgc agctcaagag cgcgcgggag 240
gacatcaagg agatcctcaa aaccacctac tgccacccta tcctgggtccg tttgggatgg 300
catgattcag gtacatatga caaaaatatc gacgagtggc cgcagagagg cggagccgac 360
ggaagcttaa gatttgatcc tgagttgagt catggagcca atgctgggtct tactaatgct 420
ntaaagctta ttcaaccaat caaggacaaa taccaggta tcacttatgc 470

<210> 254

<211> 193

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005h01b1

<400> 254

cccacgcgtc cgcccacgcg tccgatctgc tcgagcggtc acttgctagc atggccgata 60
tgatagtatt gcgagctagt aagtgtatga tcatttgtga atgcatgaca tatgctgact 120
tttagatatg gtggcaacgg tcatgcgtac atatgtattt gaacaatatc cataaatgga 180
cctatttcca gtt 193

<210> 255

<211> 416

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005h02b1

<400> 255

tcctcgcttc cgcgcgcgcg tctcctccta ctcttcgccg ctcccgtcc cgccgtcgcg 60
ccaccgccgt cagccatggc acccaagaag gagaaggccc cggcggcgtc gtccaagccg 120
gccaaagtccg gcggcgga gacagaagaag aagaagtgga gcaagggcaa gcaaaaggag 180

<212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl1189005h09b1
 <400> 258
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 cgacgaccaa ggaggagcgc cggagggagc gcaagaagcg ccgccgcgtc atggaggccg 120
 ggaggaggga cgactcgggg ccgccgcagc cgcaggcaac cggggcgcgc acgccctcgg 180
 tgcggtaccg cggcgtgcgc cagcgccgct ggggcaagtt cgcctcggag atccgcgacc 240
 cgatccaggg ccgccgcctc tggctcggca ccttcgacac cgccgaggag gccgcagcag 300
 cctacgacgc cgtcaagatc c 321

<210> 259
 <211> 348
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl1189007a05b1
 <400> 259
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 gctcaagtcc acggccggtc tgcccgtcag ccgccgctcc agcggcagcc tcggcagcgt 120
 cagcaatggc ggaaggatca ggtgcatgca ggtgtggccg attgagggca tcaagaagtt 180
 cgagaccctg tcttaacttg caccctctc cacggaggcc ctctgaagc aggtcgacta 240
 cctgatccgc tccaagtggg tgccctgcct cgagttcagc aagggttggt tcgtctttcg 300
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<210> 260
 <211> 302
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl1189007a06b1
 <400> 260
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 caattttcag ggtgcaggtc tgtatgcctt gccgggtactc gaagattgac tgtagtgctg 120

tttgtatgct gtattgtact ccctccgtcc caaaatataa gaacgttttt gacattatgc 180
tagtgtgaaa aacattctta ttttttggga tggagggagt attatttttc ctgtataccg 240
gttgatttat tgatcttgca gtgcaaccat catttcgcag gagaatatag catcccttgc 300
tt 302

<210> 261
<211> 58
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007a07b1

<400> 261

gcattatatc agtatttggt gccgagcatg aaataatgct cagttcaatg ttcaattc 58

<210> 262
<211> 80
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007a10b1

<400> 262

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atacctatct ggtaaagaca 80

<210> 263
<211> 159
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007a11b1

<400> 263

aattttcaaa gtatatatgc attaaggagg gtggagtcag gctagatcta tactataata 60

tccttaatgt ctataagtg agtcctcttt tatgcggggt tccacttta gcaatgattt 120

tagaatccga ttcaatagaa aatgagaaaa tatgcaaac 159

<210> 264
<211> 391

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189007a12b1
 <400> 264
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 cccacccttt gcgaagatgt ataacgctcc gtcggggcag gagatgtcct acacggagca 120
 cgtgcagaag cgccacgagg agaagggctg catctacgca tgcgtgttca cagcgtgtg 180
 ctgcttctgc tgctacgaga catgcgagtg ctgcctcgac tgcctctgct gctgctgcaa 240
 ctaaaccgga catggccgcc atggacggag gccgcaaggc gcagaggaga tccaccggcc 300
 tccgccgcct ttcataataa gcatatgtgt ctagtgtctt agctcgatga gaactgtatc 360
 acaactttgc tataatacta tctgtccttg t 391

<210> 265
 <211> 83
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189007b04b1
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 tttggtactg tactggatct ggg 83

<210> 266
 <211> 337
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189007b05b1
 <400> 266
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 cgtacgccgt cgacgggctc gaggtgtggc acgccatcga cgggtgggtg cgcagctact 120
 gcgcccactt ctaccacagc gacaaggagg tggacggcga cgcggagctg caggcgtggt 180
 ggcacgacgt gcgcaccgtc ggccacggcg accggcaggg cgaccaggcg tgctggctgg 240
 cgctggacac cgtcgaccac ctcgcccaga cgctgtcgac gctcgtctgg atcgccctccg 300

cgctgcacgc ggccgtcaac ttcgggcagt acgccta

337

<210> 267
<211> 309
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007b06b1

<400> 267

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accaggagag atggcaatga ggccgcttgt cgtcctggcc ctggccgtgg cgctcgccgg 120
cgtggcactg ggagggggcg cggcggaggg ggccggcgag tgcgggaggt cctccccga 180
ccggatggcc ctgcgcatgg ccccgatcat ctggcgggcg gacgagccgg actcggcgcc 240
gtcgagcagc tgctgctcgg cgggtgcacac catcggaag agccccagct gcctgtgcgc 300
cgatcatgct 309

<210> 268
<211> 298
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007b07b1

<400> 268

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gacaccgaga agagcctgcg cagcagaggg tgcaatcgac tgatggcggg agcatgatca 120
gggtgtactgg ctacctgagg ctatgttgct ggatcatgac caaaccttgc tcaagagatg 180
tgctgtggac tgtgcccagc cctgcgctag accttatagt tgctgtatg atttgtgcaa 240
taacggctgg ttgatctgct ggtacactgt aatgggttctt ttgctagact gttccgac 298

<210> 269
<211> 419
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007b08b1

<400> 269

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 caagttcggt gtcgggctcg agagccactt caccacgccc aacctcccct acgtcagggg 120
 cgccctcgac acgctcgcg cagctcaagct gcccatgtgg atgaccgagg tcgacgtcgt 180
 caagggcccc aaccaggtca agttcctcga gcaggtgcta aggggaagcct acggccaccc 240
 gggcgtgcag ggcacgtcga tgtggggcgc gtggcacccc tacggatgct acgtcatgtg 300
 cctcaccgac aacagcttca agaacctacc cgtcggcgac ctgctcgaca agctcatcgc 360
 cgagtggaag acgcacaaga cgtccgcccgc caccgacgcg aatggaatgc tcgagctcg 419

<210> 270
 <211> 418
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189007b09b1

<400> 270

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 ctcaagtcca acgggcggcg aggggacgcg gtcgcgagcg gcgacggcgg caggtctggc 120
 aagagcgct cgggctccgg cggcgtggga ggggagagat tcctagttag tgacatatcc 180
 gagtggctgg acaagtacag ggtgttcaag gtggaggagc tgcagcgcg caccgacggt 240
 ttcgacgacg cgcacctcat ccagggcagc gtgtacaagg ccaacatcgg cggcgaggtc 300
 ttcgctgtga agaagatgaa gtgggatgcc tgcgaggagc tcaagatcct gcagaagggtg 360
 aaccacagca acctggtgaa gctggagggg ttctgcatca acacggcgac gggcgact 418

<210> 271
 <211> 343
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189007b10b1

<400> 271

cggacgcgtg ggcgcaaac gtggtgttcg acgaggacgc ggtgccctcc ggcgtggacg 60
 tctccaagat ctcccaggag gagtacctca acgccccgg cgagaccttc tccgtcaccc 120
 tcaccgtccc cggcacctac ggcttctact gcgagcccca cgccggggcc ggcattggtcg 180

gcaagggtcac cgtcaactaa taagctgtct tgttgccaat tgttgccgggt gggttgatcg 240
atcggggcgtg tcatgcatgc atgcatattg attaatgtga cgaacgtacg ctatatgtat 300
atgttttcta ctattataag atgagatgag gctcttgctg ata 343

<210> 272
<211> 257
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189007b11b1
<400> 272

cccacgcgtc cgcgatagcc aatttattgg ctaattcgaa ttcgtctgta caattcgtaa 60
aattctttct tatttcttat tgttgaaatc caaaattaaa gtctcttggc tctcttcacg 120
ctttctcaca aacagattaa aaaatagatt tttatttttg aagtttgat aaaccattgc 180
ttcgtctggt gtctacaata catataactc attatagtag taatttcatt tttaccagat 240
cgaaaaattt tatgttg 257

<210> 273
<211> 366
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189007b12b1
<400> 273

cccatcttgt ccgttgacgc gtgggcggac gcgtgggaga agaggcacgc atgcgtgaga 60
aagaagcgag agacatggcg gaggagggga aggtgatcgc gatccacagg caggtgcagt 120
ggagcaccaa gatcgaggag gctggcagca gcacgtatct ggtggatgat gacttcactg 180
caacatggtg cggaccatgc cgcttcattt ctccaatctt agatgagatt gccaagaagc 240
ttccaagtgt tactttcctg aagggtgatg ttgatgaaat gaagtcaatt gccgaggagt 300
tcagtgttga ggccatgccg acgcttgctg tcatgaaaga aggaaagggt gtggacaagg 360
ttgtgg 366

<210> 274
<211> 217

<212> DNA
 <213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189007c04b1

<400> 274

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 gagggaaagg atcatccgcg ccttcttggt ggaggagcat aagatcgtga agaaggtgtt 120
 gaaaatacag aagaccacgg acaagacgac ctgaatgtaa tctgatcgaa acagaagtgc 180
 gaagtgatgat ggtgttctgt aaacaaggaa aatattt 217

<210> 275
 <211> 152
 <212> DNA
 <213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189007c06b1

<400> 275

gtatcctcaa aatcttggag tgctccgta ctctgtctgc aaataccact tcaaaagtgg 60
 taaaaaatc aagaaaaatg gaagacagag acacaacatg tgtcaactat gtcattgtgtt 120
 gaaatccaaa ttccaatctc aaatctagaa ac 152

<210> 276
 <211> 384
 <212> DNA
 <213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189007c07b1

<400> 276

cggacgcgtg ggcggacgcg tgggagtctc ccctccctct cccaaatcga agcgagaaat 60
 tccccaaaaa gctaccccat ttccgtcca gccgaggcac cggcgccgca gccgcgcccg 120
 cgcccgcgcg atgccgaacg cgatcccggc cttcttccgc gcctcgccgg ccgcggcgctc 180
 gggctccggc gccggggcgg ggcccagcct cgccacctcc gtctacgaga cccgcctcgg 240
 cctggcgggc ctctcctggt cgcgcgccgc gttcggcctc agcctccggg ccgtgctccg 300
 cgtcggggcg ctgcctcct cctcctcggc ctccgactac ggctgctacg acgacggccc 360
 ggagttcgac gaggagacca ccat 384

<210> 277
 <211> 386
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189007c10b1

 <400> 277

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 ccctccatgg ccacgctcca gcacgctctc ctactccgt ccccgctctg ctgctgctcg 120
 cagctctcc tccaccaag ggccaggaag atatctccga ggtaccaga tggggccttc 180
 tccatggcga agccattctt gcggcgcgag ctcccgaga ggggcggcac cttggcgcgg 240
 agaatggcgg gcgggcggcg ccttggcgtg gccggggccg ggaaaggccc cttctttggc 300
 ggcgggcggc ggcagggggg gaccggccgc ggccgggtcg tggcgaacct cgccttcgtc 360
 gccctcgtgg cctacctcgt ggtgag 386

<210> 278
 <211> 299
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189007c11b1

 <400> 278

 cctcgttgtg attaagactg caaattatga ggtcaggaag tatacaccat cttcagcagc 60
 tgaagcaaaa ggtgaaaaac taacaggatc atcaggtcat aacactgtta ctgggtctat 120
 atttggcacg aatgcttcat ctgagaagac tgcactgact acacctgtat tgactcaggc 180
 ttctgatgac gaactctaag acgcatccat acagatagct ctgccaatga acaaagactt 240
 gaacagttta ccagctccaa atacagaagc ggttaccttg cgaaaggctg aaggaggca 299

<210> 279
 <211> 226
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189007c12b1

 <400> 279

cgctgttcac tcttccgcac acataaagca gtggtgcaat acaacgattg gacctagcaa 60
gaaactagct agtttttgtt gtagagaaac ttagctagtt aacgccgtgg acgacgaata 120
tggtgggtag cgctaggggtg ctgctcgtag ccgccgtggt aggggtttttg gcaaccacgg 180
cgtgcgaagc cgtccagtcg gactacgcca ccgcgctcac caagtc 226

<210> 280
<211> 359
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007d05b1

<400> 280

tgatcttcca ttgcctgggt caggctatga aaaggcacag aacgctcggc ggttcagat 60
ctatgttcac tccaagatga tgatagttga cgacgagtac atcatcgtcg gatcagccaa 120
catcaaccag cggtcgatgg acgggggggag ggactcggag attgccatgg gcgcattcca 180
accacaccac ctgaacacca aagggcaggt tgccagaggg cagggtccatg gcttccggat 240
gtcgtgtgg tatgagcacc tcggcatgct gcacaacgac ttcttcaacc cggaagccg 300
ggagtgcgtc cagaggggtga acacgatggc tgacaagtac tgggacctct atgccagcg 359

<210> 281
<211> 104
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007d06b1

<400> 281

cacaaacatg tgcacaactg gtacttgtaa taatggatga tgccaataag attgtgaacc 60
ttaattcatc aggagtgtga ctgaatttgc aagtctgctt catc 104

<210> 282
<211> 55
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007d07b1

<400> 282

gtcagtcctgg actacccgct gagtttaagc atataagtaa ccaggaggtg gaagc 55

<210> 283
<211> 145
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007d08b1

<400> 283

cttgtagtgg ttatcatttg ttcaatacta ttggtactga aatgggtattt gcatgtgtgt 60
ctgcgcaaat agagaatagt gatgaaccct ttaggttatt cagtgtacaa ggggattcga 120
gcttctatgt gattatattg taata 145

<210> 284
<211> 480
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007d09b1

<400> 284

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ttggggatct ccttgatact atgagtgcct tgaggaattt agggctaaat gttgtgaaag 120
ctagtgtttg cctcgattct tctggcaaac acaataagtt cgctataaca aagtcgtcaa 180
ctggtcgcaa aattgatgac ccagagttgt tagaagcagt aagactgaca attataaaca 240
acatgcttga gtatcatcct gaagctagca gtcaattggc catgggtgca acttttgggc 300
tagagcccc tacagaagtg gttgatgtgg acatagcaac tcacatagag atctatgacg 360
atggtcctga aagaagttta cttgttgtgg aatcagctga ccgtccaggg ttgttggttg 420
atctagttaa gatcattgct gacatcaata tcaactgtcca atctggagaa tttgacactg 480

<210> 285
<211> 414
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007d10b1

<400> 285

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 ccgccctccc gcctcaccgc cggccccgta cgccatgtcg aagcaaggag ggaaggccaa 120
 gccgctcaag caggccaagg tgcgcgagaa ggactacgac gagaatgacc tggcatacct 180
 ccagaagaag aaggatgagc aaaaggccct gaaggagctg aaggccaagg caggccagaa 240
 ggggtgcgctg ggaggatctg gtctcaagaa gagtgggaag aaatgagtct gccaccctt 300
 acgtaatgcc cagaaaatga taatctatct atctacctat ctgtgtcgcg cttcactatc 360
 tgtggctgta aaagactacc ttcagctgtg ttgagcatta agcattgtcg cagt 414

<210> 286
 <211> 340
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189007d12b1

<400> 286

cgacctcaga gctggaggcg aagctcgacg agggccgccc ccgctggag gcagagctcg 60
 tggaggcgct cgcgagcctc gaggggcaga aggaggaggc catcaaggcg ctggacgcgc 120
 agatcgtgtc gctcagcgac gagatcgtca agaagggtgt cccatccgcg tgaaaactag 180
 tagatcacgc agcgcgcagc agccggcgca atccccggt tcatagtaaa gatttctagt 240
 tcttgatgtg taatgtatac gccactggg ctgcctcccc taagaatgta actgaatcaa 300
 acattctgtg atcgggtata aatgaatgat ccttttgtac 340

<210> 287
 <211> 344
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189007e05b1

<400> 287

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 acgtacgagg gcgagcacia ccacccgcac cccacgcggg ccggcgagct gccgagctgc 180
 gccacgcagg gcggcggctc ggtgccgtgc tccatctcca tcaactcctc cgggtccgacc 240

atcacgctgg acctcaccaa gaacggggga ggcgtgcagg tcgtcgatgc cggggaggcg 300
 caaccggaca tgaagaaggt gtgtcgggag gtcgcgtcgc caga 344

<210> 288
 <211> 384
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189007e06b1

<400> 288

gcggttaaga ggaaggagag cagagatgac tgcgtccgtc tcctacgggc tgcgagcact 60
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 gtcggcgcg gggccccggt ggacgcggcc ccttcggacg ccggcgagga tgggcaatgt 180
 aaacgagggc aagggcatct tcgcgcccct ggtggtggtg gtgcgcaaca tcgtcggacg 240
 caagcgcttc aaccagctca ggggcaaggc catcgcgctg cactcccagg tgattaccga 300
 gttctgtaag accatcggcg ctgaccccaa gcagaggcag ggcttgatcc gcctcgccaa 360
 gaagaacgga gagaagctcg gatt 384

<210> 289
 <211> 335
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189007e07b1

<400> 289

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 ccctgcggcg cccatggcgg catcccgct cgcgctcccg ctgtcgtcga cggccgccag 180
 gggcatgagg ctccgcgcgc aggcgacgta caaggtgaag ctgatcacgc cggagggcga 240
 ggtggacctc gaggtccccg acgacgtcta catcctcgac cagcccgagg aggaagggat 300
 cgacctgccc tactcctgcc gcgccggctc ctgct 335

<210> 290
 <211> 417

<212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189007e08b1
 <400> 290
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 gccagatcc tctccagggt ccaaaggccc ccagggtcat tgccatcatc tatgctagga 120
 tatgaggcga tgacagggtc cttggatgat tttggatttg aagattacct taacttgccc 180
 caagactctg acagcctccg cataccggac atgcaccacg gaatggaggt tcgccttggc 240
 ctgtcgaagg ggcccatctg cccagtttc aattgattcc acccatgtat tagtcttgtg 300
 atacgtcgtg ctccccgtcc agcatctata accagtcact agactgtatc atggatttgt 360
 gaaacgcgag aactaaattg gcattgcac agtttgaaat tccttaactt cgattgg 417

<210> 291
 <211> 393
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189007e09b1
 <400> 291
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 ctgggggtctt gcccgttacg cggccatctc acaggacaat gggctggtgc cgattgtgga 120
 gcctgagatc atgctcgacg gtgagcacgg catcgagagg accttcgagg tcgcacagaa 180
 ggtgtgggcg gagaccttct actatatggc ccagaacaac gtcatgtttg agggcatcct 240
 cttgaagcca agcatggtga cccctggtgc cgagtgcaag gacagggcca cccctgagga 300
 agtagccagc tacaccctca agcttctaca gagaaggatc ccccttccg tccccggcat 360
 catgttcttg tctggtggtc agtcggaggt gga 393

<210> 292
 <211> 109
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189007e10b1
 <400> 292

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agttggagtg ggttcagtgg atgtcgtaat aactaatttt agctttttt 109

<210> 293
<211> 278
<212> DNA
<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189007e11b1

<400> 293

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tccccccctt aatattggct cctaagtttc agttaggctt aggaatctat atttgtggct 120
ccatcataac attgaaggca cagagatgag agcatgctaa ttgaaccata ttggttgtat 180
tgtatgagct ggtcacttat tgaatgacct atgctggcgc tgagttcata ttgacagaa 240
ctggagagga aaaagcagaa catgtggtct gttactag 278

<210> 294
<211> 88
<212> DNA
<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189007e12b1

<400> 294

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgccgcc cagcgcgcc 60
cccacgcgtc cgcccacgcg tccggcga 88

<210> 295
<211> 344
<212> DNA
<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189007f06b1

<400> 295

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catgaatatt tcagacccca acctaaatta ttagagcaaa atttatcata ttttttacca 120
agaaaatgtt tttagtatga atttaatttg aatctagcta gtccaaattg catatagaaa 180

agtatatttt atttcctatg ggagggtgccg atgaaactat ttatatgtgt atggaatcta 240
tctcaagaaa cttggaactc ttgattatca gctattcttg ctactcctaa gtgtaggctt 300
acaccacata gggcaaattt agcaggtttg aaaagcaatt caca 344

<210> 296
<211> 366
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007f07b1

<400> 296

gagatctcac gcaaggagca cgaggaggag gcaagggaag ccgccgccgc cgccgccccg 60
tccctcctcg ccggccggcc gccacaggtt tcaagatgtc aacctgcacg tttgcagctt 120
cctgtgccct cttgggcaat gctcgaacaa ccgatgcccc ccagaaagcg gtcaagagcc 180
gcctgagctt cctcgccga ggcgcgccgc agctgcggag cctgaggtcc tccttccct 240
ccaagaagct ggtgacatct gcatacaagg ggacgagcac gtacaagggtg aagctggtga 300
ccccggaagg ggacgagcac gagtttgagg cgccggacga cgcttacatc ctggactcgg 360
cggaga 366

<210> 297
<211> 468
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007f08b1

<400> 297

aagtctataa ggctgctgag actgatcgta tctatcgcat gaagctgcat gagtatctgc 60
aaaagatcaa tgaagggaag atatttgggc ctgttatctc tgttatccac gacatcgaat 120
ttttaaaaaa agggctaccg catgcccggy tccttgtttg gcagaagaaa aaacataaca 180
aagtggatcat ccagcttttc atgaaaacct ttgcttcagc cactggtggg atctgaactt 240
actgatacta ttggcgatgt tcctgggtat ggtcagatgc ctaagctaga aagagatgag 300
ccggctgttg cagcgtatga ttcacaggc acattagagt cgagctgaac ccaactttca 360
aatgagcata agaaagcgat gattttgtgc atggagtctt gctgccttga tcattggtac 420

ctcggccctc gctatcttca ccccacgaca agtaacaatt accttttg

468

<210> 298

<211> 415

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007f09b1

<400> 298

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caccatcgcc ggccgcctca ccgccaccgc cgacgaagaa ggtgtgctcc tccacgtcgc 120

gtgcaccggc gaggggtgtgc cgttcgtggc cgcgctcggc ggatgtgcct tgcaggatca 180

cgggctcctg gatgcgccct tcacgacgag cctcctggat gatctcgtcg tgtactaccc 240

ggcacctgag ggctgccgga gcacggaccc gatgctgctg atgcaggatca ccgagttcgc 300

ctgcggcggg ttcaccctgg gcgtgacgtg gaaccacacg ctagccgacg ccacgggcat 360

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<210> 299

<211> 66

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007f10b1

<400> 299

cgcggttcgtt agtgtgatca taaattctct tcgaattaca ttcaaata ttgagatctt 60

cgctag 66

<210> 300

<211> 325

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007f12b1

<400> 300

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gtcaaacatt aaggaaatca gctttgtcat gttcgagaag aagaggggtg ttagctgtga 120

atcctgtgcc tcttcagcca tgatcttctt caagcttgtc tcccagatcg tggaggaaac 180
gccatcactt tttgcttttc tgtccgggtt ggaaaaggac ggggggttga cccgttaagt 240
tcctatttga cctgtgcggc ttgtttaaaa gtgggacagg aaaatggaca tacagggtac 300
aagggacagt gaacagttgt cacaa 325

<210> 301
<211> 277
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189007g04b1
<400> 301

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aaccaggcga gacatgcagg gtcccaagta ccgatcacca aaggtggctg gaaagcgggt 120
tggaatagta gggtttattcc ctagctctct ttttctctg tcatcgctcg attatccgta 180
tttcagtttg cttagctcta aagactcctc ctatagtggg atcatcgga tcaccagaaa 240
aagagaaaag agaacctgtg gcaagacaaa ggtagtg 277

<210> 302
<211> 432
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189007g05b1
<400> 302

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ccctccccgt ccgcgtgcga tcgacgcgga ggcgcgccc gtccccctcc gctccgcccc 120
gacccgaccc catggccttc atgcgcacct cctccaatgc atcctctggc atgggagttg 180
ctcctgatat caggagagaca ttcctggagc ttcagatgaa gaaggcattt cgctatgtca 240
tcttcaaaat agaagaaaag caaaagcagg ttgttgtgga gaagacgggg gctacaactg 300
agagttatga tgatttcctg gcttgtctcc cagaaaacga ctgcagatat gccctttatg 360
atcttgactc tgttactggg gagaatgtgc agaaaagcaa gattttcttc attgcctggg 420
cccctgacac at 432

<210> 303
 <211> 284
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189007g07b1

 <400> 303

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 cgagattgag cgtgttgcca aggctaaccg gtaagatgga tgtgcatctg agggctctcg 120
 ttttggtgag agattttgaa gtgaatgtgt tctacaagat atctagaact gttttagcta 180
 tgcgttaagt tttatggaat gaacatttcg atgtagtggc aagaacgtgc ctgatgcttg 240
 tctttgtgaa acctattcct gttcagacat atttggatat gttg 284

<210> 304
 <211> 363
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189007g08b1

 <400> 304

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 cctaagggtc gtttcaagta ccaagtagga caagtgaagag ctttcggaat gctggctggt 120
 ggatctggca tcaactccgat gttccaagtt gcaagggcaa ttctcgagaa ccctaatac 180
 aaaacgaagg ttcatctagt ctatgcaaat gtcacacctg aagacattct tctgaaggaa 240
 gagctggaca gcctggccga agaatacct gaccgcttca agatcttcta cgtgttgaat 300
 cagcctcctg aagtctggaa tgggtggtgt ggctttgtgt cccaggacat gattaagact 360
 cac 363

<210> 305
 <211> 428
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189007g09b1

 <400> 305

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gtccctcccg gtgccgaaac cccactcctt gccctcctcc gccgcggcgg tcaccacgt 120
gcaggcaaag aagtcgccgc cggccgtggc tggggctgcg gcggcgaccg tcctgccgac 180
gacggccgag agcacagcgt cgatgatgcc ggccgaggcg ctgtcgctgc acctgccgga 240
gctgccgtcg gcgatgcggg acaagatcct gagcctggag ctgatggggg tggactacgg 300
gcgcgcgctg tcgctgaacc cggcgctccg ggacgcggcg ccggagtcca tccacgcggt 360
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gtgcccgt 428

<210> 306
<211> 384
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189007g10b1
<400> 306

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ctcgtcggcc acctccgtcg ctctttcca ggggtcaag tccaccgccc gcctccccgt 120
cagccgccgc tccaacggcg ctagcctcgg cagcgtcagc aacggtggaa ggatcagggtg 180
catgcagggtg tggcccatcg agggcatcaa gaagtgcgag accctgtcct acctgccacc 240
gctcagcacg gaggccctcc tcaagcaggc cgactacctg atccgctcca aatgggtgcc 300
ttgcctcgag ttcagcaagg ttgggttcat cttccgtgag cacaacgcat cccctgggta 360
ctacgatggc cgttactgga caat 384

<210> 307
<211> 345
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189007g11b1
<400> 307

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cattaccctg gggagcccg cgggtgcagcc gtgctgctcg ctgatccagg ggctggcgga 120

cctggaggcg gcgccgtgcc tgtgcacgac gctgaacctc aacctcctgg gcatcaacct 180
gaccttgccc atcgccctca gcctcgctct caacaactgc ggcaagaacg tcccctccgg 240
cttccagtgc cccaactgag cccggccgga ccttgcatgc tgcattccgc atacctcatg 300
catgcatgca tgcattgatt gctatttgaa gtaccaccac gtact 345

<210> 308
<211> 301
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007g12b1

<400> 308

atctgtccac tcgtgcccc acgctccgg ctctctctag caagctatat acctacatag 60
tacagccatg gcccgcaccg tgatggccta ggaggccacc tccgtcgtc ctttccaggg 120
gctcaagtcc accgacggcc tgcccgtcag ccgcccgttc aacggcgcta gcctcggcag 180
cgtcagcaac ggtggaagga tcaggtgcat gcaggtgtgg cccatcgagg gcatcaagaa 240
gttcgagacc ctgtctact tgccaccgct cagcacggag gccctcctta agcaggtcga 300
c 301

<210> 309
<211> 324
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007h04b1

<400> 309

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cggcaatgga gcatcggggc ctgcttctcg tctcgtcgc ggccggcgtc ctctcgggcg 120
gcgcccacgc caggcacgcc aagaagtcgt acggggccgt cttcagcttc ggggattcgc 180
tctccgacgc cggcaacctc atcgtcgacg gcatcccaa gtcgtcacc accgcgcggt 240
cgccctacgg catgaccttc ttggccgccc ccaccggccg ctgctccaac ggccgcgtcg 300
tcgtcgactt cctcgccgag cact 324

<210> 310
 <211> 400
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189007h06b1

 <400> 310

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 gcttaatgcc gctgtccgcc gcgtggatgc actggaagcc gaactcattg taacaaagaa 120
 ggccctgcac gaggctctta tcaggcaaga ggaactactt gcttatgtgg acaggaagac 180
 aattgccaaag gccagaaaaa agaagaagaa gccgatgtct tgctactagg acacaaggag 240
 agagagagag agagccccct ttggttccag ttttcttttc tctgagatgc cggagatggc 300
 gtttgagatg atgtaaacgg ttgatccgtt cgttttcctg acaaagtga aaaggacaga 360
 catatggggtt tgtaaattga cagaaaatcc tgacataaat 400

<210> 311
 <211> 402
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189007h08b1

 <400> 311

 tcaattaacc tcaaaacaat gaggaaatca aggtgaaggc caagattgaa gcacagaagg 60
 tcagagagat tgcagaggag agtgcggggg caaaagctcg gatgaatatt taccttgcac 120
 tgacggcgat actcgggtctt acaatcgcaa atgccgtctt tgcaacgcca gaggtggaat 180
 ggaggaagggt tgctgctctg ggtctaattt tcattggcct ggttgctcag gtaatctatg 240
 agcaagatat atccccaccg gtagctgaca aggatgaaaa aagagaagaa tgaaagagct 300
 gtgcaccctg agtgaaacat caaaaagcag caagagcttc atcgatatag acgtagactg 360
 tataaattca agatatagat tgtgtaattc tagttatcat tt 402

<210> 312
 <211> 223
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189007h09b1

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<400> 312
taccaacatg gctcgagaaa gcatgctcgt atgtgaatgc tatcgggtggc tatgtatatg 60
cacggacgca taatattata caatatgtca actatatacg ttttaatggg taaaaaaaaa 120
aaaaaaaaaa aaagacaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaatacata 180
aaaaaaaaaa aaaaaaaaaa aaaaaagggg gggccgtttt aaa 223

<210> 313
<211> 358
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007h11b1

<400> 313
tcgcggttcc ggaggagacc cgaggaagaa ggagaagcgg cgcgggcgagg cgcgggcgagg 60
agaaagatgg ggaagatgcc ggtgcggatg aaggcgggtg tgtacgcgct gtcgccgttc 120
cagcagcagg tgatgccggg cctgtggaag gacatcacca ccaagatcca ccacaaggtg 180
tccgagaact ggatctccgc cacgctcctc atcacccccg tcgtcggcac ctaccagtac 240
gcgatgtact acaaggagca ggagaagctg tcccacagat actagatgtg aagctttgtc 300
aaatgtcaaa gcagttggaa tttccatgtt ctataatccg ccaagagtga tttaacat 358

<210> 314
<211> 293
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007h12b1

<400> 314
tcccactcgt ccgaccact cggcggcggc ggagcacgcg aagatgggtga agttcctgaa 60
gcccggaag gcggtgatcc ttctccaggg tcggttcgcc ggccggaagg cggtcattgt 120
gcgcgttttc gaggagggca cacgcgaccg cccctacggt cactgcctag tcgccggcct 180
agccaagtac cccaagaagg tgatccgcaa ggactcgtcc aagaagacgg ccaagaagtc 240
gcgcgtgaag tgcttcctga agctgggtcaa cttcacccac atgatgccca ccc 293

tacatgttac agttggtacg gttaattaca cataaacagc gcaaacggca taatcaccac 180
 acgacacgaa ggagaacgaa cgacatggtg agcaacatgg agaaggaaca cggccaacag 240
 aaagtacacc tggaactcta agtctccttt tcctttgggt cagggagaga ctctctgaac 300
 caggggatca gaacagaggt cctcttctgg tacagcctgt aggcctctgc ccggtgctcc 360
 tgcttcagca tgcgccgctc gacgagcagc gtgacgtagc cgaggcacat gct 413

<210> 318
 <211> 480
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189008a06b1

<400> 318

cccacgcgtc ctcccacgcg tccgcccacg cgcccgagag aagcaaactg gaagcatcta 60
 cgagcactgg gatattcttc ctccaagga aatcaaggac ccagaagcta agaagccaga 120
 ggactgggat gacaaggagt acattcccga tcctgaggac gtcaagccag agggctacga 180
 tgacattccc aaggaagtca ccgacctga tgctaagaag cctgaggatt gggatgatga 240
 ggaagatggt gaatggactg cccaaccat cccaaccga gactacaagg gcccatggaa 300
 gcaaaagaaa atcaagaacc ctaactacca gggcaaatgg aaggcaccta tgattgccaa 360
 ccagacttc aaggatgac cttacatcta tgctttcgac agcctgaagt acatcggaat 420
 tgagctgtgg caggttaagt caggaacttt gtttgacaac attctcatca ctgacgatgc 480

<210> 319
 <211> 268
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189008a09b1

<400> 319

ggctcatggc agcgcaaagc gtgtgttagc tgatgtgatg ttacaccgta gaatcatcat 60
 cgttcgtgac gataataatg atccgacgag aacctctatt gtcattgttc tgttgctatt 120
 gtgtagttta ctctgtatct gaactcggtt tagtctgcgg aaccgtactg ctatgatgaa 180
 tgtgtcgatg taaatcgtag ctgtcgtgcc tgtctgactg atacattgtt atcgtagtcg 240

ataaatgata tcattctgtgt cgtctcag

268

<210> 320
<211> 454
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008b01b1

<400> 320

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tactgtagct atagcagtgc acaacatacc tgaaggcctg gctgtaagca tggtagctatc 120
atctaggggt gtctccccac aaaaagcaat gctatggagt atcataacat ctttaccaca 180
gccaatgttt gctgtgctg cattcctttg tgccgatgca tttcagaagg tgcttccttt 240
ctgtactggt tttgctgcag ggtgcatgat atggattggt attgcagagg ttcttcctga 300
tgcttttaag gaagcaactc catctcaagt agcctctgct ggaacacttg ctgttgcttt 360
tatggaaaca ttaagtaccg tgcttcaggg attcacggat ggccacggct tggaagatac 420
atcaggcttt ttggtatcac ttgtatttgg tctt 454

<210> 321
<211> 451
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008b02b1

<400> 321

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ggcggcggcg agcgagcgag cggcggcgat gacgaccgc ttcaagaaga accggaagaa 120
gcgcggccac gtgtccgccg ggcacggcg tgtgggcaag caccgcaagc atcccggagg 180
ccgcggtaac gccggaggca tgcaccacca ccgcctctc ttcgacaagt accatcccgg 240
ctacttcggc aaggctcgta tgcgtactt ccacaagctc agcaacaggt tctacacacc 300
gacggtcaac gtcgagaggc tctgtccat ggttcctgc gacaaggcg cgaggccgg 360
cggcgacaag gccccgtgg tcgacgtctc gcagttcggc tacttcaagg tgctcggcaa 420
ggggatgctg ccggagaagc ccatcgtcgt c 451

<210> 322
 <211> 269
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189008b03b1

 <400> 322

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 gctttgtaac ttaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaacia aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaagg gggggcccttt aaaaaaaaaa aaaataaaca 240
 cccggtgcat ggaaaaaaaa attttttttt 269

<210> 323
 <211> 486
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189008b04b1

 <400> 323

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 cctccacggg ctgatgtgat taaaagtctg aaaaatggca ttgtgctcaa tattcttggg 120
 atgggcgcag ctgttctcgg tatgcaggca cttgttggtg ctttggtagc aaaagccctt 180
 actacctccg cagtccccta ttatcaggca acttccgccg gccaaagtcc tgttttggct 240
 ctagatgtat tcctggttca ggctcagca aacaccatac tgcgcattt cctagggtgtg 300
 gcgacttccc tggagctgct ccgttccgtg tcaatcgccc cgaccgagcc tgctgcgaca 360
 tgagccagga gcccaagagc tgctggattc ctttactttg cacttgtttt cttttctccc 420
 tgactgccta ggaatagcat ctctgtgtcg ccggtattat gtcttgacat ttcggcttaa 480
 atgagc 486

<210> 324
 <211> 79
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008b05b1

<400> 324

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acatgggtac cttatgggtc 79

<210> 325

<211> 427

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008b06b1

<400> 325

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ctccctgccc ccaaccccc accccacccc aaccatggcg gaccgcggcg gcgagcgtgg 120

tggcgaccgc ggaggcgagc gcgggcggtt cggccgcggc ttcgggcgcg gcgggcgcg 180

ggaccgtggc gggcgccgcg gcgggcgtcg tggccctcgc caggaggagg agaagtgggt 240

gcccgtcacc aaactcggcc gcctcgtcaa ggagggccgc ttcaccaaga tggaggagct 300

ctacctcac tcgctacca tcaaggagca ccagatcgtg gagcagctct gcccggggct 360

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ccgcttc 427

<210> 326

<211> 297

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008b07b1

<400> 326

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catgtgctgg acggaccct accgcagcc gccgacgcc acgccaagg gatgaccac 120

ggtgcccgcc gccggcgatg tcctttgcgg ttgagtagat gacatagaag atacatcaaa 180

atttacaggt ctagagagct tcagataaca tgatcatgtac agatctcttt ctccccggtc 240

aataagatag gttcaaagac gatgtaatta tcataatttt cggtaaaaag atggatt 297

<210> 327
 <211> 183
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189008b08b1

 <400> 327

 cccacgcgtc ctggaatgtg aggctatattt ggcttgttga tgttgctggt gtgtgttttt 60
 ctaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaataacaa aactaaataa aataaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacggg 180
 ggc 183

<210> 328
 <211> 478
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189008b09b1

 <400> 328

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 aggcggagcc cgtggagaag ttccggctcg acaacctgag cccgcagaag gggcgcgccg 120
 ggaagccgaa gcggaagggg cgcggtatct cgccggggca gggcgccagc tgcgggttcg 180
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 aaatgccgct ctaccgccgt cttccgaagc tccgcggaat cgccggcgga atgcatatcg 300
 ggttgccaaa gtacgtgccg ttcaatttga gggacatagt gcaggggtggg ttcaaggatg 360
 gcgatgagat ttccttgag tccttgaaat cgaggggctt gatcaatcca tccggcaggg 420
 aaagaaagct tccactcaag attttgggag atggtgatct atcagtcaaa ttgaacat 478

<210> 329
 <211> 491
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189008c02b1

 <400> 329

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 ccgtgctgct cactctgcag aagacggagc cagaggtgta caccgatacc atgatcatgg 180
 ctctctgcgc gaatttattc ggggctggaa cggagaccac gtcgacgacg acggagtggg 240
 cgatgtcgct gctgctgaac caccggcgcg cgctgaggaa ggcgcaggac gagatcgacg 300
 cggccgtggg gacctcccg ctggtgaccg ccgacgacgt gcccggctg gcctacctgc 360
 agtgcacgt gagcgagacg ctgcggtgtg acccgcggc accgatgctg ctgccgcacc 420
 agtcctcggc tgactgcaag gtcggcggt acaacgtgcc gagcggcacg atgctgatgg 480
 tgaacgcgta c 491

<210> 330
 <211> 225
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189008c04b1
 <400> 330

cccacgcgtc cgccacgcg tccgctctgc atgctttacc atgcggagct aaaattacgc 60
 tgggcgccta ttagtagaat ttggcattgg ttttgtgtcg atgccggggt tcagagctaa 120
 aattttattc tcacgcgaag actcgtatca agagttgttt tttagaggct gtataccgaa 180
 ctactgtcga tcatatcaat atgaatagaa atgatttttt gtttc 225

<210> 331
 <211> 260
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189008c06b1
 <400> 331

agaattgtgag accattaaca cggtaaagc taaactgctt gaagtctagg caaaaagagg 60
 tactctttct acaactatat tagtattagt accgaattta aacgggaaat agctaattga 120
 aaatttatct gatatagaac actcatatcg ataaaatggg ttgaactatt tactagaaaa 180
 aaaaaggggg caccctgccc ttttttaacc aatgccgaat cgacgaccta tgtataaaaa 240

agagaaattt tttggatttg

260

<210> 332

<211> 76

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008c07b1

<400> 332

gtagtaaagt aattaatatc atatgtcaac tgtctctgtg tgatctttag catttgctaa 60

ttgattcgat taaaaa 76

<210> 333

<211> 305

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008c08b1

<400> 333

ctctgttcga aatctttggg gacgattctg tattacaatt tgggtggagga actttaggac 60

atccttgggg aaatgcacct ggtgcagcag ctaatcgagt ggctttagaa gcctgtgtac 120

aagctcgtaa cgaagggcgc gatcttgctc gcgaaggtaa tgaaattatc cgagcagctt 180

gcaaattggag tcttgaacta gccgcagctt gtgaagtatg gaaggcgatc aaattcgagt 240

tcgagccggt agatactatt gataagtaga taaaactaaa gataaagaag agaaggtatt 300

actcc 305

<210> 334

<211> 317

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189008c09b1

<400> 334

gaccgaaatc tttggggacg attctgtatt acaatttggg ggaggaactt taggacatcc 60

ttgggggaaat gcacctgggtg cagcagctaa tcgagtggct ttagaagcct gtgtacaagc 120

ttcgtaacga agggcgcgat cttgctcgcg aaggtaatga aattatccga gcagcttgca 180
aatggagtcc tgaactagcc gcagcttggtg aagtatggaa ggcgatcaaa ttcgagttcg 240
agccggtaga tactattgat aagtagataa aactaaagat aaagaagaga aggtataaat 300
aaaaaagaaa cgaanna 317

<210> 335
<211> 398
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189008d01b1
<400> 335

cccattcgtc cgtggacatc ggccgagaag gttccggaag gatgcctcgc gcgggggttgt 60
cggcgggggtc gagcaaggcg gacgtggcca tcgacctcgg gaaccgcgtc ctcaaccgca 120
ccgtcgacgg cttcctcaag atcggcgccg acggcgctg caggggtggcc gccgaggacg 180
ccttcgactg cctccaaagt gggagtgtct cgaagcacia gcttgagaag aactggaaa 240
aaatgtgcaa ggagggcgca tattgggggtg ctgttgctgg agtgtatgta ggcattggagt 300
atggagtgga aagggtccgc ggagagtatg actggaaaaa tgcgttgatt ggaggcatcg 360
tatggcgcg cctgatctct gctgctagca acaacaaa 398

<210> 336
<211> 428
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189008d02b1
<400> 336

cccactcgtc cgcggacgcg tgggctgatg tgcaaaaccc atcggccgcg ctgacggagg 60
aggcgcccgc ggtggagacg cccgtcgccg ctgaggaggt cgcgaagacg gaggaggtcc 120
ccgcgccggc ggagaccgag gtcgaggcgc ctgctgcccc cgtcgaggtc gtggagacca 180
aggaggaggc accggccgcc gccgagacgg aggatgcaa ggaggccgag ccagcagctg 240
cggccgagcc ggaggccgag ggcgccaaaag agacagaggc gccagccgtg gtcgagacag 300
agaccaagga ggccgtggct gaggcagagc cggcggcggc cggggaggtg aaggaagagg 360

cggcgcctgc tgccgagggc gagccggccg ctcccgtgc tgctgaggaa gcaccggtgg 420
aggcagcc 428

<210> 337
<211> 485
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008d03b1

<400> 337

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caacctcgaa gatgtcttgc tgcggaggaa gctgcggctg cggcagcgcc tgcaagtgcg 120
gcaacggctg cggcggctgc aacatgtacc cggaggtcga ggccgccggc gccaccctcc 180
tcgtctccgc cactgccacc cacaaggcga gctccggcgg gatggagatg gcggcggaga 240
acggcggctg cggctgcacc cagtgaagt gcggcaccag ctgcggctgc tcctgctgca 300
gctgctagat cattgatcat gcctgcgcgc cgtgcatcat atctatgatc tatctaccat 360
ctactaccat gtaacgctgc ctgatcgagg gtctttgtat gtatgtacgc acctgcctgc 420
atgagcagag cgggtgccat gccatgcatg taaacccta aataaaatct cccgtgggta 480
tgctt 485

<210> 338
<211> 263
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008d06b1

<400> 338

agctttccca acaaccattc ccccagcaac cacaccaacc tcaacaacca tatccacaac 60
aacaaccata tgggagtagt cttacaagca tcggtggcca atgaaatgaa cacctgtaat 120
acaagacgga tggatcatcg ttgttttagtc aatgagcgtt caatgtaacg atgataaata 180
aagtgatgtg caccataatg tgtaaccccg acctatacta gttcaaakat gggaataaaaa 240
gacaaagaaa gttcttgtca cat 263

<210> 339

<211> 420
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189008d08b1

 <400> 339

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 ggagctcagt cccgacaaag acgtgtacat gtacaggggt gaccaggggt tctgcagcga 120
 ggagtgccgg ggacagcaga tcttgctgga cgaggcgaga gagcacgagg ccatgatcag 180
 caaggagcgt cgagggtctgg ctcaccgtcg tcaccaccac gggccacgcc cggcgccgtc 240
 gggggcgatc cggggcggtgc ggaggagatt actggcgga gcctagcctg attatgcata 300
 ataatgcatg cacgaacatg acatccatga acaaatcgat caagaaccta tgatgctgga 360
 aagttaatta caagtaatcg aggggcaaat caaggaaacc aatatgcgta ttgcatgta 420

<210> 340
 <211> 447
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189008d09b1

 <400> 340

 cggactcgtg ggcggacgcg tgggattttc atccccctgc ccgccgccgc cgccgtcccc 60
 gccgctagac cagctcgcca gcagcaatgg cccggatcaa ggtgcacgag ctgaggggga 120
 agaacaaggg cggagctgca gggccagctc aaggacctca aggcggagct ctccctcctc 180
 cgcgtcgcca aggtcaccgg cggcgcccc aacaagctct ccaagatcaa ggtggtgcgc 240
 acctcgattg cgagggtgct cacggtgatc tcgcagaagc agaagtcggc gctgaggag 300
 gcgtacaaga acaagcgtct cccgctcgac ctccgcccc agaagaccg cgccatccgc 360
 aggcgtctca ccaagcacca gctctctttg aagacggaga gggagaagaa gcgcgagaag 420
 tacttcccc tgaggaagta tgctatc 447

<210> 341
 <211> 428
 <212> DNA
 <213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189008e01b1

<400> 341

gagcgcctcat atatcctcga gacctccaga tctgtggtct gttgcagtct ctgcctcctc 60
acaacaacaa gcccttgag atggacaccg ccatgcaccc cgccgccggc gacgacgacg 120
tcctcgccga cctgctcacc gtcggcaccg gcaccgacac cgagggcatt atttgtggta 180
tgccagactt caagatgggt ggaaagaggg gcgatgaatc tgcccctact gatgctgggtg 240
atgaagatgg cgaagatgat gacggggacg aggatggcga cttcgcgagg ggcgaagagg 300
aaatctcgga aggagaggag tatgacaacc ccaaggccag tgacgccaag aagaaacaaa 360
taggcgaggg tgaggagaat ggcgaggatg atgaggaaga acaagaggag caggaaggtg 420
gaggaggt 428

<210> 342

<211> 298

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008e03b1

<400> 342

tcgcgcctcg cctcgctcg gctcggtcg tgcttgtgta ccatggatct gatggattcc 60
cctctatcta tgcttctggt gatacttgat cgttgtactt cgtatcagta attggaaaga 120
tgctgcatgc atgatgcag caattactgt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaaa aaaaaaaaaa 240
aaaaaaaaat atagaaaaaa aataaaaaaa aaaaaaata aaaaaagggg gggccttt 298

<210> 343

<211> 221

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008e04b1

<400> 343

ggagtaagca agggaatcca gcattggtta gaataacagg aaggaaatga gtattgtcta 60
ttgtgtgtac aaagtattgt taggtcatgt ccaagggtta gtctgtctct atgtcgttgt 120

agattctcgt ctacattcat gatctgtgtg ttgttatctg ttcaaatcaa gtcataaagt 180
aagctgtcat gtaaactcat gtattagtgt tatttgtaaa a 221

<210> 344
<211> 225
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189008e06b1
<400> 344

gttctaactg aaaatgaagg gtgactacca caggtacctt gcggagttca aggcgggtgc 60
tgagaggaaa ggaacattg ctggctttgg ctctaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa caaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaagggcgca aatggggggg gttct 225

<210> 345
<211> 459
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189008e07b1
<400> 345

tatccccca ttctcattct gcacggcaca gcacagcaca gcacagcgga gaagaggaag 60
gagagcagag atgactgcgt ccgtctecta cgggctgcga gcacttccga cgtggtccag 120
ctctgtgtcc ggtgacgacc actgctcggc gctggccatg tcggtgtcgg cgcggggggc 180
ccggtggacg cggccccctt ggacgccggc gaggatgggc aatgtaaacg agggcaaggg 240
catcttcgcg cccctggtgg tgggtgtgcg caacatcgtc ggacgcaagc gcttcaacca 300
gctcaggggc aaggccatcg cgctgcactc ccaggtgatt accgagttct gtaagaccat 360
cggcgctgac cccaagcaga ggcagggtt gatccgcctc gccagaaga acggagagaa 420
gctcggattc cttgcttgac ctgcctcaca atccccctt 459

<210> 346
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008e09b1

<400> 346

cacacaccgc acgcgtttga cattttccgc ccaccaccac cggagggagc gagctccagc 60
catggccgcc aagtgctacc cgacggtcag cgacgagtag ctggcgggcg tcgccaaggc 120
caagcgcaag ctccgcggct tcatcgccga gaagaactgc gcgcccctca tgctccgcct 180
cgcggtggcac tcggccggga ccttcgacgt ggccaccaag accggcgggc ccttcggcac 240
catgaagtgc cccgcggagc tcgcgcacgg cgccaacgcc ggccctcgaca tcgccgtcag 300
gctgctcgag cccatcaagg agcagttccc catcctctcc tacgccgact tctaccagct 360
cgctggagtc gtcgccgtcg aggtgaccgg cgggcctgag gtccccttcc acccggtgag 420
acaggacaag cccgagcc 438

<210> 347

<211> 413

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008f02b1

<400> 347

atgagcatcg ccgaccgcct cctccgccag aacctcctcc tggactgcca ggtggacgtg 60
gccaaaggcga gcttcgacgt gcggcagccg gacaaagagt tctggaagaa ggtgtgcagg 120
gggttcctca agggcaggct ccagccgcag cagcagaagc agcaacataa gctgcagcta 180
taggagtcgg aggagtcgga gccggcgggc agtccgagaa gaaggccggt gccgccggag 240
gaggaggagg aggaggacat agtagcgtaa ctgagctggg ggggttgca ttgcgagcct 300
agaattaatc cttatttttc tgcttcggag tttgacatcg tcgtcgatcat catcatcatc 360
ttgtacagaa accgcctaatt taatcgaagc attaataaag agcgatcggg gct 413

<210> 348

<211> 399

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008f03b1

<400> 348

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cagctcggca cggacgtccg tacgcgcgtg ggggtcacc accggggcac gcaggcagcc 120
gctgacgagg gccaggccgg cacggtggac cagcggcgag cgggcgcgcc actgtgcgtg 180
acacgcgtgc acatgcatgg cgttcgtcgt ggggcgctcc ccaacgggca gaagctgccg 240
tgctgtggat ctgtgttcgt gttggtgttc gtctcgtgat gtgtttgttt ggttgtgttc 300
ggcgcgtggg gtttcttctc ttgtcatgag actcggagcg tgtgtatggc tctgttcgtt 360
tcattcttctc tgctgtaata tatgagcgtt tcatgtgca 399

<210> 349
<211> 83
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189008f04b1
<400> 349

tcgccctttc gttcgtcctt agcatgctat atacctacat agtacagcca tggccccccac 60
cgtgatggcc tcgtcgtcca cct 83

<210> 350
<211> 455
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189008f05b1
<400> 350

ccaccgcgct caactccaag gtcgtctccc agtactccgg cctcctggcc cctctcgtg 60
tcgacgccgc cctctccgtg gtcgatcccg cccaccogga gcttcttgat ctccgcgaca 120
tccgcatcat aaagaagctc ggccggcaccg tggatgacac cgagcttgtc cgccggcctca 180
tctttgacaa gaaggccagc catgctgccg gggggccatc taggatcgag aatgccaaaga 240
tcgctgtcat ccagtttcag atctcaccgc ccaagactga tattgagcag agcgtcatcg 300
tgtcagacta tgcgcagatg gaccgcattc tccgtgagga gcggaattac atcctagga 360
tggtcaagaa gatcaaggcg tctggatgca atgtcctcct catccagaag agcatcttgc 420
gtgatgcggt gactgagttg tcgctgcact atctc 455

<210> 351
 <211> 324
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189008f06b1

 <400> 351

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 acccgcgcgg cttcaacctc gtcgacgtcc tcgcctgggg ctccatcggc cacatcgtcg 120
 cctactacat cctcgccacc accagcaacg gatacgacct acccttcttc ggctgatccc 180
 tcccatgtct gcctgcctgc gtgccgaccg gaccggcttg ctgttgtaat ccgccgtggt 240
 ttcattagtt ctctatacgc tgatgatgta ctatcatggt tgtatgtatg tgagatgggtg 300
 aaagattaat ctggacaagt agtg 324

<210> 352
 <211> 487
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189008f07b1

 <400> 352

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 cgacgacgag ctgcgcaagt ggtacggccc tgacaggagg atctacttgc ccaacggact 120
 ccttgaccgg tcggagggtgc cggagtacct caacggagag gttcccgag actacggcta 180
 tgatcctttt ggtctgggca agaagccaga ggacttcgcc aagtaccagg cctttgagct 240
 catccatgcc aggtgggcca tgctcggcgc cgccggattc atcatccccg aggcgctcaa 300
 caagttcggc gcaaactgcg gtcccgaggc cgtttggttc aagactggcg cccttctcct 360
 tgacggcaac accctcaact acttcggcaa cagcatcccc atcaacctga tctcgcgcgt 420
 cgtcgccgag gtcgtcctcg tcggaggcgc cgagtactac aggatcacca acggactgga 480
 atttgat 487

<210> 353
 <211> 394
 <212> DNA

<213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189008f08b1
 <400> 353
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 tgctcgacgg tgagcacggc atcgagagga ccttcgaggt cgcgcagaag gtgtgggagg 120
 agaccttcta ctacatggcc cagaacaacg tcatgtttga gggcatcctc ctgaagccaa 180
 gcatggtgac ccctggtgcc gagtgcaagg acagggccac ccccgaggaa gtggccagct 240
 acaccctcaa gctcctccag agaaggatcc ccccttcctg ccccggcata atgttcttgt 300
 ctggcgagca gtcggaggtg gagggcagcg tgaacctgaa cgcgatgaac caggcgccga 360
 acccggtggc cgtgttcttc tctacgcgc gggc 394

<210> 354
 <211> 441
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189008f09b1
 <400> 354
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 agccgccgct ccaacggcgc tagcctcggc agcgtcagca acggtggaag gatcaggtgc 180
 atgcaggtgt ggcccatcga gggcatcaag aagttcgaga ccctgtctta cctgccaccg 240
 ctcagcacgg aggccctcct caagcaggtc gactacctga tccgctccaa gtgggtgcct 300
 cgctcgagt tcagcaaggt tgggttcata ttccgtgagc acaacgcata tcctgggtac 360
 tacgatggcc ggtattggac aatgtggaag ctgcctatgt tcgggtgcac tgacgccaca 420
 caggtgatca acgaggtgga g 441

<210> 355
 <211> 419
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189008g01b1

<400> 355

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tgggccgccgc ggcgagcacg ttctctggga cccggctggc ggacccggcg ccgcagaacg 120
ggcgcatcgt ggcgcggttc ggcttcggca agaagaaggc cccgccgaag aaggccaagg 180
cgcccccgac caccgaccgg ccgctgtggt tccccggcgc gcaggcgccc gagtacctcg 240
acggcacgct cgtcggcgac tacggcttcg accccttcgg cctcggaag cccgcggagt 300
acctgcagta cgacgtggac tccctggacc agaactggc ccagaacctg gcgggcgaga 360
tcctcggcac ccggttcgag gacgccgacg tcaagtccac cccgttccag ccctacgcc 419

<210> 356

<211> 357

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008g03b1

<400> 356

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ggttggcggc agccgcgggg acgatggctg ggatcttctc caggttctct tccggcgccg 120
gccaccgccg cgccaagagt gccgtggagg ttgtggagac attggcgccc aacatggaga 180
ccgggggagtc tgaccgggca gctgacctg gagatagccc gcacggcatt gaggtcggca 240
tcgagttcaa gccggtggag caccctgtgg agcctgtcaa ccttgaccaa ccagtgaat 300
gcccgcttcc tgagccatct atactgcatg atgggaggat atggcaagag aggatgt 357

<210> 357

<211> 445

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008g04b1

<400> 357

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tggaataaca atcgaagatg tgccctcatc aatttgcaac cttgcttgcc tcaaatctgt 120
atcattgaat ggaaacaaaa ttctgcagct tccccaaaac ttgctgaagg attgcaaggc 180

tcttcagaac ttgtcactgc acagcaaccc aatctcgatg gaccagtttc agcaaattgga 240
 tggattcggg gagtttgaag cacgcagaag gaagaagttt gacaagcaga ttgattcaaa 300
 tgtgatgatg ggctccacag ccctggatga aggcatatgat ttacgctagt tttgcgagtg 360
 aacttatttt ttcctcatta gtcggaagta attgtaatct ttgtatatat cagtctcccc 420
 acaatctgat tcggtaaaga agtca 445

<210> 358
 <211> 401
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189008g05b1

<400> 358

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 tgctgcggcg gcaagtgcgg gtgcggcgcc ggctgccagt gcggcaacgg ctgcggcggg 120
 tgcaagatgt tccccgacgt ggaggccacc gccggcgccg ccgccatggt catgcccacc 180
 gcctcccaca aggggagctc cgggcgggtc gagacggccg gggagaccgg cggctgcgac 240
 tgcaccacct gcaagtgcgg caccgcgtgc ggctgtcct gctgcagctg caactgagcc 300
 ggcgcccagg aggccggcag aggcgagcac gaggatgagg aggaggaaa gcaagcaagc 360
 accatcgtca ccagttcaca gcatgcgccc gcgcgcgcgc t 401

<210> 359
 <211> 349
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189008g06b1

<400> 359

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 ctgtgaggcg cccatcaacg agtatgtcca gtcgtgtgac atcgttgcc tcaacaagat 120
 ctagaatctt tgttcgccc cctgttgctg ctggattctt ggtactggga ttggttgatc 180
 tggaaaacat tatgtcgtcc catttagtta cccctcttac agaaatgcta ctggttttgt 240
 ttttgagtga tgccctggtc ttgaatgcct gctaccttta aatagttgaa ttgctgagcg 300

gtttgtaatg gcgaaacatc tatcatgtgg agtaaaatca gtctttgat

349

<210> 360
<211> 447
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008g07b1

<400> 360

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ctgctacaac ctttgccgcg cccgtggtgc tcagaagtta tgccgaggcg tctgtaggtg 180
taaaatctca agtggcctaa gctgccctaa aggcttccct aaattggccc ttgagtccaa 240
ctcagatgaa ccagacacca ttgagtactg caacttggga tgtaggtctt ccgtgtgtga 300
ctacatggtc aacgcagctg ctgacgatga agagatgaaa ctctatgtgg aaaattgtgc 360
tgatgcttgt gtcagtttct gtaacggtga tgctggcctc ccatcccttg atgcgtactg 420
atgcgtgtcc atggtctgag atttcac 447

<210> 361
<211> 290
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008g09b1

<400> 361

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gatgaagcta taggacaact ttgtttcgag tcatatttac atgtcacact tgaattgttc 180
ctatagaaaa taatgtgtgg gacaaatgtt cgcacttttg gctagggtga atattccata 240
ccaaatctag tagtatcagt ttgaaatatt acatgttgta ttcttctcta 290

<210> 362
<211> 413
<212> DNA
<213> Triticum aestivum

ggaacatctc gtcttcgccg tgaatcgctt ggtggccgaa actctagtag ccaacttctc 60
cagacttctc cagtcacgtt ctgcggcaat tgcagatcgc cggagtggcc tcctctggcc 120
atagagaggc cttgccgttt gccgccgtg tcgtcggcag tcatgtggcg gattgaagcg 180
ccggagggcg ccgcttcgac gcgcctacag aggagggcgt tgtcaaccat ggggtgcctc 240
tggtgctgcg ccgctggagc gctgtcgagg ccgagggctc tcgtgtcctt ggggccggag 300
ggaggggtcag ggacgggtgga gccgtcgagt tcttggccta attgctctct ggaagaggcg 360
tgcgtgataa cgtgttggag agaatcgaga gagaggagcg aatggaaaac agatatatga 420
atgaacagtt attctattga tcgaagattg gggatattat acc 463

<210> 365
<211> 400
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008h07b1

<400> 365

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cccgtcact ccccgagcg aagcctcgag agctcccaat ggcttccacc acgttctctc 180
ccgcttctc catctctct ctccctctt cctcaccatc cccctccgcc tcggccccc 240
ggacctccc cgtcgccaac cgccgccgc gcgcgctgc cgtcgctcc accgtcactg 300
agtccccgaa ggtccttgag ctggcgacg ccattgccgg gctcaccctt gaggaggctc 360
gcaaccttgt cgaccatctc caagaacgtc ttggcgtctc 400

<210> 366
<211> 171
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008h08b1

<400> 366

tcggcgcat cttgctagcg aaggtaatga aattatccga gcagcttgca aatggagtcc 60
tgaactagcc gcagcttggt aagtatggaa ggcatcaaa ttcgagttcg agccggtaga 120

tactattgat cagtagataa aactaaagat aaagaagaga aggtataaca t 171

<210> 367
 <211> 327
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl1189008h09b1

<400> 367

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 tatggcggca tcataaatca ggatacagtt cagaagtagt ttgagatcta caaacaagaa 120
 actggctgnc gcataaatga gagcatagtg gcattagggt cacaacacat ggttgattag 180
 tttcttcaga agttatttga acaaagacac atatattgtt atcgtaaagg aacctgtact 240
 gttgtaatgt gacaaacaga agatttatta ccatgcaaac cggtatgtcc gtagcctgtt 300
 acaagcacgg aattgcaatg atcaana 327

<210> 368
 <211> 418
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009a07b1

<400> 368

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 ctacgtcact gacctgagct acaacgcgca gaagctgggc caagcggcgg cagcggcgcc 120
 aggcgcgggc gggtcctaca tgcagccgca ggggcacttc tcgtaccgga cggcggcgcc 180
 gcaggagggc atgctcgcgc ccaacggcat gatgcccggt taccctact accactatca 240
 tcactaccac cagggctcgc aggggctggg cgtcccgccc gcgcgcttct tcccgcgggt 300
 ctccgcccgc gtgcccaccg ttcccgccat catctccaag cccaccgtca tggcgcttcc 360
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<210> 369
 <211> 81
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009a10b1

<400> 369

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cagttgaagc attgcatgaa t 81

<210> 370

<211> 490

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009a11b1

<400> 370

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atTTTTtctt tcatattgtg gagacgcttg ttcgtttctt caacaaatat gcatatgtac 120

agatagctgt caacggacag agtttcaatc gttcagctag ggatgcttgg gagctgttcc 180

agtcgactgg cattgaagca cttattgctt atgattgttc tgggtgctgtt cttttgatga 240

gcacaatatt aggtgggtta attacaggaa cttgtactgg tgtttggaca tatttcacac 300

aacgtgataa agcaattatg gttggctcga cctctatgct gattggcatg atactggttg 360

ggctagctgt cgtgggttgtt gaaagcgcag ttacatcaat atacatatgc tatgctgagg 420

accctcttct aattcagaga tgggatcctg aattttttga gcaaagtca gaagcactgc 480

accagcgact 490

<210> 371

<211> 471

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009a12b1

<400> 371

gtcgaactcc gctctttcgc ccactctgaa gggcagcgag gtgtgcacgg tttcgccgag 60

cgtgggcgag tggagcccgag agctggtgaa ccctcacgtg gtccgcgcga tgaaaggtcg 120

catcgaatgg cccagggcg cgaagaagca gagcctgaag tcaaagcctc tggattcgag 180

attcgacggc cgcaagggtcc agctgcgcca agcattgaag cagaagatat aggatggccc 240

<210> 374
 <211> 283
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189009b09b1

 <400> 374

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 tgatgctggt attgtatgtg tacacaagaa taaacacggt gctgtcacga ggtcctggaa 120
 cctggagttg ctgctgagct gctctgtagt ttacctggta tattctggtg cattggcgac 180
 caggctgcag tgatctcaga ttggaatata cgtctctatg aaggaacata ctttgtaaac 240
 atatgttgtc gaacctttgc tttgtttgcc ggacaagtnt tgt 283

<210> 375
 <211> 448
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189009b10b1

 <400> 375

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 caggccgggt gggagagagg cggggcgacc gacgatgaag gagtactgga cgatgctggc 120
 gtccctcatg ggcgcgctgg cgttctctgca aggggtgctg cacgccgtgt tcccggcgga 180
 gctgcgggcg gcgctggcgc ggctgctcgg gcgcctcacc cgcgccttct cgcctactg 240
 ctacttcgac gtcacggaga cggacgggat gagcaacaac gagatctacg acgccgtgca 300
 gctctacctc agcagcacgg ccgcgccggc atcgggggcc cggctcagcc tcacgcgcc 360
 gcacaacgcc acctncttca ctttcgggct cgccgccage gaccgcgtcg tcgacgcctt 420
 ccgcggcgcg gccgtcacgt gggagcac 448

<210> 376
 <211> 264
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189009b11b1

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<400> 376
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gaggaggagg agcgccaccg ttgctggcgg cggcagaagg accgtgggtg ccggcgctccg 120
ggcatcggcg gcggcgggcg cggaggcgga ctacagctcc agcgtctcgg tgttccccat 180
ggaggcctgc gacctggtcg gcggcgaggc gtgcgaggcg catatgtacc cggagacgaa 240
gctcggcgcc ggtgcaggcg cccc 264

<210> 377
<211> 419
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009c07b1

<400> 377
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acggccgccc gcgccgttcc tcttcgcgcc cagcttctca cctggacggc ccccgacccc 120
gcggccggcc ccgccgtctg gacgtcgctg tcggacgccg tcatgggcca cggcgccgac 180
cagccacccc gccgctggat cctccttccc cgcccggcgc cggccatggc gaccaccacg 240
cgtacaagta caaaagccct catgctccaa tgagatccag cgagacaggt tcgtccccat 300
ctagcccggg cagcgctcgt accctgcac gaccagatcc actcgacgtc gtcgtacaga 360
tccgcacgat gtcgacggtc agtggtgagg agcgctctg ccaccactcc tctgggatc 419

<210> 378
<211> 467
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009c08b1

<400> 378
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gctgatgtcc agaaccggac ggccgcgctg acggaggagg cggccgcggt ggagacgccc 120
gtcgccgccc aggaggccac gaagacggag gaggtccccg cgccggcgga ggccgaggtc 180
gaggcgcttg tccccgtcga ggttgaggag accaaggagg aggcgcgggc agccgctgag 240

tcgctggggc agttcagcct gctgtggatc gaccagcagc agcgccctcg cttcagcgtg 360
gacgtggtgg agtccgactg gggctacggc gccgacctcg gcgccctcga gtccaagctc 420
cgactgact cgcagcacac ca 442

<210> 381
<211> 407
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189009c12b1
<400> 381

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cgagcacttc acgctcgacg aggtcagaga gatgatccag gccgccgacg aaaacgggtga 120
cggcgaggtc gacatggagg agtttatgag gatgatgaag cggacggggt tcggcactgg 180
attctagtag aacagagcag aggacaagct gaatgaaccg acataattcg cgggttgtac 240
ttacttgtac atgtacctac tcgatcgtgc tgcataccta catgtagtca cgcattgttcg 300
cacctgggat ttcttttgcg aggtgtttgc gtacatgtac caaaattacc tggcgccgac 360
aagtgggtgct gttctgctgc caaaaaaaaa atgggtttgc ttatctc 407

<210> 382
<211> 141
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189009d07b1
<400> 382

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tcccggaac catcgagtct ttgaacgcaa gttgcgcccg aggccactcg gccgagggca 120
cgctgcctg ggcgtcacgc c 141

<210> 383
<211> 63
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189009d08b1

<400> 383

aaatataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggagg acgaatctaa 60

aga 63

<210> 384

<211> 74

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009d09b1

<400> 384

gagtttagca atgttgggct catcttccgt gagcacaacg catctcctgg gtactacgat 60

ggcctctctc cctc 74

<210> 385

<211> 435

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009d10b1

<400> 385

gggttatggc cagcctattg gtcgctacga tgatatgtgg gctggatggg gcaccaaggt 60

gattactgat catttgagcc tgggtattaa gactgggtctg ccctacatct ggacacagcaa 120

agcaagcaac ccatttggtga acctaaagaa ggaatacaac ggcatcttct ggacaggagga 180

gctgatcccc ttcttccagt ccgtgactct ctcaaaggag gccaccactg tccagaagtg 240

ttaccttgag ctggccaagc aggtgagggc gaagctgggc aaggtggatg gctacttcaa 300

caagcttgct gatgccatgg tcacatggat cgaggcttgg gatgagctca acccaccaaa 360

gggtgcaatt accaccacca acggccctgc tctgaagagc aagtgagact gtgagaggca 420

gtagcataca tatac 435

<210> 386

<211> 441

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009d12b1

<400> 386

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tccctagatg aagaaagaga ctctacagct aaagacatgc ttaagaatgc ctcaagtcta 120
ccacctgtac acactcctgt gcaggaacaa tatcttccgc cgtgtgcacc accatttcca 180
caaggaaatg ttaaggaagt gaaccatcag aaagttgatg tgatcaaaga agggagtaat 240
cttcctaata tatttgagat caaatcaagc ttgcttcagc aaatcaggga taagccagat 300
ctgcacaagc tgaatggaca tgaaaagccc aaagcagtat ttaatgatgt taacagtttg 360
gacgaaaggg gggagttgct tcagcaaadc aggagcaaga cattcaactt aagacgaaca 420
aatggatcta agacaaacac c 441

<210> 387

<211> 367

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009e08b1

<400> 387

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ttccagatcc ttactatgga ggcgctaagg gatttgaaaa ggtactggat ctgctggaag 120
atgcatgcga gtcattactt gacagcatca tggcggagaa tgaaaacatt tctgcttgat 180
ctcagaatga atttccctga gccaatgtaa gcgtcacatt ttaatttgat tgtaccaggg 240
atcagttgca aagatgtgga ttagctttct gtgagccatc atctcttcag cccagataat 300
tgtaatgata attaaactaa aatacactct ctcatcacca tgcgtatata tgtgttaggc 360
tggatac 367

<210> 388

<211> 438

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009e09b1

<400> 388

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ggcatgggcg tcttcacctt cgtgtgccgc gactccggcg ccgagtgggc ggccaagcag 120
 cacaagggcg agctcgaggc ctccgccgcc acccctacg acctgcagcg ccagctcgtg 180
 tccgccgctt gcgccgagga caagtccggt gggtccagt cctccttcac catgggtctcc 240
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 ggtggtgctg caggtgggtg cgctgcatca ggtggagctg ccgccgaggc cccaaggct 360
 gaggagaaga aggaagagga gaaggaggag agcgaggatg accttggctt ctccctcttc 420
 gattagatct tctttacc 438

<210> 389
 <211> 420
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189009e11b1
 <400> 389

cccacgcgtc cgcaacaaga tgctttcgtg tgccggggct gataggctcc agactgggtat 60
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 cttttctgtg cgggtgcaagc ccaacaatgc catccatgcc actgaggccc ttcgtcgtgc 180
 caagttcaag ttccctggcc gccaaaagat cattgagagc aggaagtggg gcttcaccaa 240
 gttcaaccgc aacgactacc tcaagttcaa gaggtagggc aggatcttgc ctgatggagt 300
 caacgctaag ctgctcggat gccatggccg ccttgccaac cgtgcccctg gacaagcttt 360
 cctgtctgcc gcataatcta gcagaagaag tctatccgtt ctatcagaac ttattttact 420

<210> 390
 <211> 480
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189009f07b1
 <400> 390

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 gaggtacttc agccaggtga tggcggcgcc gctgaggagg ggcgcgacc accacgggaa 120

ggaggccctg tcgcgggtgg cgggtgacgcg gtcggacgtg gacatggacg gcatcagggc 180
ggcctaccag gagcagttcg gggccaagct cgaggacgcc gtcgccggca gcgcgcacgg 240
gcacttcaag gacgcgctcg tctcgctcat cgtcggcaag taaaccatat ccggaggggg 300
ttctttcttcg tcttccagtg gtgatggcgc gccggccgtg cgtgtgtttt tcttctctgct 360
tcattctcgtg tcgtgtgtgc ctttgtatgt tgaattgttg tcgagcggng catgtaaaca 420
tttgacgctg aggtcgtgta cggctgatcg gngatcaaat aaagttgaac atttgggtct 480

<210> 391
<211> 472
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009f08b1

<400> 391

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gagcttcttc tttcttgca gggagaggac agcgagcaac cagggagcta ggcgtcaatg 120
gcgaccatag ccacgatgac catgctcaag cccgccggcc tggccgcgcg gccggagccg 180
gcctccgccg ccgtgcagga gtcgccgcg ctggcggcgg tagcgccgcg cgacgacaac 240
cggggcctgc tgctgctctt cgtgggtggc cccgccctcg gatgggtgct ctacaacatc 300
ctgcagccgg cgctgaacca gctcaacaaa atgcggtcca actgagcgtc gtcgtcgtcg 360
tggcatcgca tgcggtccgg ccgagtggtg tcgtatgtgt gtgttcgtct attaagagtc 420
gtggtagtag cgtggaacgt ggtgtgagt cctgcttgca tactctctaa tc 472

<210> 392
<211> 395
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009f10b1

<400> 392

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tccggcatca gcctcagcct cggcaccacc aacaacgacg tggccgtcct cgccagcagc 120
ctgtccgccg ccgccgatg ggtgcaggcc aacgtcaagc cctactaccg cgccgccgtg 180

gacgtgcgct acatctccgt cggcaacgag cttgccagcg acaccgcgca gagcatcctg 240
gcgggcgatgc ggaacctcaa cgacgccctt gcggccgagg gcctcggcgg cgccggcgcc 300
ggcatcaagg tgtccacggc ggtgaggctg gacgtgatcg ccaactcctt cccgccctcc 360
gccgctgtgt ttgcgcagcc ctacatgggc gacgt 395

<210> 393
<211> 451
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009f12b1

<400> 393

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gcggcttcgt gccgctgctc ccaattgagg tgatgaagga ccggtgctgc cgggagctgg 180
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ctcccagcca aagccaaggc ggtggcccc cgcagccgcc gctggcacct aggtgcccga 300
cggaggtgaa gagggacttc gccagaacgc tcgccctgcc ggggcagtgc aacctgccga 360
ccatccatgg cggccccctac tgcgtcttcc catgaacgct agcttggttca tgaaaacatt 420
gtgtgaatga ataagctagc agcatgtcac a 451

<210> 394
<211> 451
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009g08b1

<400> 394

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cccaccaagg aaaggaggat gtcttgctgc gcgggcaact gcgggtgcgg cgccggctgc 120
aagtgcggca acggctgcgg cgggtgcaag atgttccccg acgtggaggc caccgccggc 180
gccgccgcca tggatcatgcc caccgcctcc cacaagggga gctccggcgg gtccgagacg 240
gccggggaga ccggcggctg cgactgcacc acctgcaagt gcggcaccgc gtgcggctgc 300

tcttgctgca gctgcaactg agccggcgcc caggaggccg gccggcagag gcgagcacga 360
ggatgaggag gacaatgcaa gcagcaccat caccaccagt tcaccaccac ccagcgtatc 420
atcaccagcc gccgcatgcg ctgcggggcg c 451

<210> 395
<211> 202
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189009g10b1
<400> 395

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atgcatttcc tcttgttcca ggcaagagcc tttgatgacc atgtatttgc cttctatgag 120
tatctttgtc taactgtcaa cataccttca aactgtatgt ggtgcaatct ttggataaga 180
gaatgctaaa ctttttttga tt 202

<210> 396
<211> 76
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189009g11b1
<400> 396

tttcgcccac gcgtccgccc acgcgtccgg aaataacttt gaaatcgcg taatagaaac 60
cagaacgttc ccatgg 76

<210> 397
<211> 249
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189009g12b1
<400> 397

ggagcttttg gatggtgatt gacaaaggca ccaacaagga agatcagaga gttgcatttc 60
cttagtagca gttctaactg tctcttctat accttgtaga ccataatgaa ataattagga 120
cgctacggaa ctggagttct accactatat gtatctttac tgtctgcgac caagatgtgt 180

<210> 400
 <211> 251
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189009h09b1

 <400> 400

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 tacgtctcaa catggtaact ttctcggtta attaacctgt attgcaaccc ccagtggcgg 120
 taggatttcc atcatgtaaa agtgttgtct gtaatcacga gggacaagga tagaacattt 180
 gctgccactt tgtggcgcggt tctaaagtct tggagcaatc acaagaagca acatattcta 240
 gtctggatat g 251

<210> 401
 <211> 206
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189009h10b1

 <400> 401

 ggggtgtgcta tgcgcgggggt cgcgtgacgt gggctaaata aaagtgttgt cgggtcgggt 60
 cgacgcccag tgtcggtcag cagcgagcga cgcagtgccca ctctcgccgg cctgcgtctg 120
 cgtctgctta gctggagcct tgttacggtg tgtgtcacag tgtcagttcc acctatgatc 180
 gatcggtatc ctaaccgggtt tgcggt 206

<210> 402
 <211> 78
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189009h11b1

 <400> 402

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 cgaagtgtgg ttggcagt 78

<210> 403

<211> 459
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009h12b1

<400> 403

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 ttaaaaaactg ggactagatc gggagaagaa gatgtggtgc ttgaggtatt tgttcatgtt 120
 tctcttggag agatgcatgc atgcatgggg agatctcgcc tgacggggtt ggtgcatata 180
 tatggcctat ggggtgttgc gcctggccgg ttgaagctgc agctttgttg tagccatgaa 240
 cctgtttttt ttgtttctct ccagaaaatc tgtaccaaga gcctgtgaaa agctatgtgt 300
 gtatgagaga ctatgagcta gcaaaaagtt cttcctcctt cccatgccat gtttatccgg 360
 ttgttccttg ccttgttggt ttctcctgtg catccaaaat aaccgtggtg ttaattcctg 420
 caatacgcag aggaagaacc agccatggtg cttaattct 459

<210> 404
 <211> 439
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189010a01b1

<400> 404

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 gtggtggcta cggcgccag cgtggtggcg gtgactccgg cggccagtgg aggaactgag 120
 cggcggggcc ctccagttat cgatctatct accatctcgt cgtcttcgtc agcaagttat 180
 cttcagttcc tgtgtcagtc agtctgagtc gtcgtgtgtg tcgttgagtc ctgtggtgtt 240
 tttgatcgcg agctcgagtg tcgctctgtc cggggttaat tagagctggt tacgagagga 300
 agaaacaaca tgtgttatct ttcagtcttg gtcggtcggt cgtcggtgat gcagcaatcc 360
 cttctgtcat ggattgggat gtgatgttg aatatcctat gtttgaactc ggtttaaatg 420
 gaagaaaatg caagtcgtc 439

<210> 405
 <211> 409
 <212> DNA

<223> Clone ID: uC-tsfl189010c01b1

<400> 407

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cctgaagacg ctgacagacc aatagcagtg tggataaagg agcatacccc gggaaaagca 120
tttgaagagg caaaacctgt gattgctgct ctaaaggaac aaggagcgtc tagcgttggg 180
gctgcaggtt attgctgggg tgcaaaggta gttgcagagt tagcgaaagc taatgagatc 240
caggcaggcg ttatgttgca cccttcattt gttactgcca atgatataga agaggctaaa 300
tgcccatcg ctatacttgg agctgaaact gacgt 335

<210> 408

<211> 264

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189010c02b1

<400> 408

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ttaccacct ccgccccgt cgtcgagcca ccacatcgac gcggatgagc tggacacttt 120
tacagacacg gagtgggtcc ggggccatca ctctgaggcg ccgtcgctgt accacctcga 180
cgccgacgag ctacacaagg taccaagccc gcaccaccac ggccaccacg ctacagcacc 240
ggtgccggtt caccaccacc acca 264

<210> 409

<211> 198

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189010c03b1

<400> 409

ctactcgtgg tcgagagccg ctggcggggc taccgggacg cgccctccga gggcagctcc 60
ccctggggcg tcgccatggt cgtcctcctc ctctcgtac tcaccagctt tactccacc 120
ttccaggaca tgtggaaggc ttgatggaac gaacggttct ccgatccata cctcgtacgt 180
atgtgagtat gtatgtga 198

CCDS:361430.1

<210> 410
<211> 311
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189010d01b1

<400> 410

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gtcactctct ctcacccgct agcctcacgg gccccggcgg gccgccacag ggacgcactg 120
gaacctcgct ccaaaggacc gtgggcaact ggcaccttcc caacgagaag gtcgcgggcg 180
tggtggcgga agaccacgag tgcgagatga gggccggcga gaagcagcgg gatgagtgca 240
tggcgaggag gacgctcgcg gcgcacaccg actacatcta cacccaagat atcaaatggt 300
ttgttgggcc c 311

<210> 411
<211> 160
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189010d02b1

<400> 411

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cgctgatgat gtttgaactg tcgatagttg gtaatggtgc atgcttgcta tatttgctat 120
gccgacctca aatatatcgt ttatggaggt tcctgttaaa 160

<210> 412
<211> 245
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189010e01b1

<400> 412

ccctcgcgct cgggagggtcg ctgatggagc aatgctgggc gacagaaccg tcggaacggc 60
caagcttcac ccagatcgcc gtcaggctgc gcgccatggc cgcgtcccag aaggtgcaat 120
cctagtagcg ccagcagtgg tcttgagaaa acttctgggg ccatccatcc gtcttgga 180

agttcgtctt cgcattattgc gtattttaag aaaatccggt gctgatatat ataaatatta 240
tattt 245

<210> 413
<211> 461
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189010e02b1

<400> 413

gttttctgaa tgttgatgac aacgagttcc agaccaacct ggtgccctac ccgaggatcc 60
acttcattgct ttctctctat gccccagtga tctcagccga gaaggcctac catgagcagc 120
tgtctgttgc cgagatcacc aacagcgcct ttgagccttc ctccatgatg gccaaagtgcg 180
acccccgcca tggcaagtac atggcctgct gcctcatgta ccgtgggtgat gttgtgcccc 240
aggatgtcaa cgctgctgtg gccaccatca agaccaagcg cactatccag tttgttgact 300
ggtgccccac tggtttcaag tgtggtatca actaccagcc acctgggtgac gtcccaggcg 360
gtgaccttgc caaggctcag agggctgtgt gcatgatctc caactccacc agtgttgctg 420
aggctctttc ccgcatcgac cacaagtttg acctgatgta c 461

<210> 414
<211> 280
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189010e03b1

<400> 414

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tggtgcagca gctaactgag tggctttaga agcctgtgta caagctcgta acgaagggcg 120
cgatcttgct cgcgaaggta atgaaattat ccgagcagct tgcaaattgga gtccctgaact 180
agccgcagct tgtgaagtat ggaaggcgat caaattcgag ttcgagccgg tagatactat 240
tgataagtag ataaaactaa agataaagaa gagaaggtat 280

<210> 415
<211> 365
<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl1189010f01b1

<400> 415

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cccacgcgtc cgccacgcg tccgcggcgt tctcccggat ctgcctgtct aacattaagc   60
tccatggcag cgcaccagtc cgcccatgga aatgcgcggc tgtgagtggg ggtgcactcg  120
acgtgcagcc ctccccgtgc acagaattga ctagcacgtc cgggatgagc ttctgtacaa  180
attccctctg atgctgaatc aagtcttgca cttcagtttc ggtgtgtcaa tgccttgat   240
tcctccaatg agatgacatc aaagggtagg ccaaacaatt tttgttttgt ttattacgta  300
ttatatcact ggaatctagt agttcaacaa gtgaaatgtt atccggtggg tcaatgcttg  360
tccac                                           365
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<210> 416

<211> 482

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl1189010f02b1

<400> 416

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ccctcgcgtc cgaagcagtg aaagagaaga ggctaataca gctcaacagc cttcttttcc   60
agagagtgtg ctgtgtacgt agcagagcga agagttagag ccatggctgg ggtggtcggc  120
gtctggttcg ccaagttcgg ccgggaggcg gcgccggcgg tagaggcaga ggccgaggtc  180
gtcggacggc gacaccaggg cgacggcctg ctcgaggtgg aggccgtgaa gacgggtgcag  240
atccaggaga ggaggaggag gaacagcgcc gtctctcgcca actccgagga cacgggtgtgc  300
atgtcatgag accgcttcgc cccggcctga tgcgccgggt aaccggcggt gtccgtacgt  360
acgtgtaaata tccagggcac gtacgtaggg gcgcgggcac aaggaggagg ccataccttg  420
atgtgcgggt tcctcttgta cataagctct ttttcatcgc taatcgagtg atagtagtag  480
ta                                           482
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<210> 417

<211> 87

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl1189010f03b1

<400> 417

ggttatgtcg cttgagttat agattgtgtt atctggatta tgtgccgtgc tggcatttgg 60

atcttaatat taatccttta gtctggc 87

<210> 418

<211> 472

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189010g01b1

<400> 418

gcgctctcca cgctcgtccc ggggggtctcc tacatccacg cgggccccgt gctccgcctc 60

cgctccccgg ccgccgaggc gctcggcccc acccacctcc tccactcccg ctacgccacc 120

aaggccgacc tcgccgccta cgcgccgcac ccggcccacg tcgccgccgt gcaggcgcac 180

gtcgccccca acgcgctcga cgccaccgcc gtcgactggg tcaacgccgc gggcgccccg 240

tcccccgtcg gccccggcgc cgccgtgcgc ctcaccctcg ccaagggtcaa ggagggcggtg 300

gaggtcgggc agctcgtgga gaagggtggc gccgccacca aggacgccgg cgaggccagc 360

ggctccaagg tcagcttcgg ggagaacttc tccccgcgc gggccaaggg gtaccagttc 420

gggatggtgg ccgtgttcgg cagcgtcgag gagctggacg ccgtggaggg cg 472

<210> 419

<211> 414

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189010g02b1

<400> 419

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tgttcctggt gccaagtgtg cagtcaagac tccaaacagg gagtttgtgc ctctattctt 120

tgaagccatg gagtctctta tcaagtaagt gacggaaact tgaggatcgg tattccatca 180

aagttattca gttatgagca tacactgggtg tgctgttcca tggaagtgtg aattgtattg 240

tgttgttatt gtatcactat tagatcacgg tatttaaact gttagtttct tggtttcaga 300

attttcctct agggatacac aacctggaca ttttgtgccg cataaattgt atatcggcct 360
gaacattttt tcttgccatg tcacagcaca tgaaaatacg tcttgtttct tttt 414

<210> 420
<211> 416
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189010h01b1

<400> 420

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cgatgtcaat ggcggacgag cagaacgacg ctggcccgcc cggcgcgccg cacttgctgc 120
tgctggcgggt ggtggtgggg ctgctggttg cgtggccgct tttcctgggt ggcagccgcg 180
aggcgggtcat cgataccatc gccaaagcca tcgccgagct gctcggcccc gtgggcctgc 240
tctctctccc gctggggctc ctctctctca tccacctct ctctcgcgac ggcggctcgc 300
ccgacgccgt gtaccatgtc ggtggatccc ccatcggcgt ggcgctcatg ctggctctca 360
tctctgcctt cctctactac cggtcggcac tcttcggcag cggcggaggc gacgac 416

<210> 421
<211> 338
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189010h03b1

<400> 421

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cgagagccct cttcgccggt gaagtagcaa gcaagatggc tggaaggaag ggaggcgaca 120
ggaagaaggc ggtgaccgcg tccgtcaagg ccgggctcca gttccccgct gcccgcatcg 180
ggcgctacct caagaagggc cgctacgcgc agcgcgtcgg ctccggcgcc cccgtctacc 240
tcgccgccgt cctcgagtac ctgcgcgcgc aggtcctgga gcttgccggc aacgctgcc 300
aggacaacaa gaagaccgcg atcatccgcg gccacctt 338

<210> 422
<211> 370
<212> DNA

aagaatagat tggatctatc cggctgcact ttataatatt ttttagtatt tttcggataa 60
 ataagaaaag ggtgcacgat ctcgacgaat tactttctgaa taaattcaga aatcatatgg 120
 aaagaaccat agcatttcgc gactcattgg taaatcaact ttgattctct ataaaccaag 180
 aatgtgagac cattaacacg gttaaagcta aactgcttga agtccaggca aaaagaggta 240
 ctctttctac aactatatta gtattagtac cgaatttaaa cgggaaatag ctaatgtaaa 300
 atttatctga tatagaacac tcatatcgat aaaatggttt gaactattta ctagaaaaaa 360
 aaagggggca ccctgccctt ttttaaccaa tgccgaatcg acgacctatg tataaaaaag 420
 agaaattctt tggatttgaa gaaaaaaaaa aaagaattctt attaattntc attttccatt 480
 ta 482

<210> 425
 <211> 177
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189011a06b1
 <400> 425

gtccttgccc tgcaccgcct agttgttttt atcttagtgt cgacgttgga tggttttggc 60
 acgttttagc tgtatcggtt ttgtcttttg gctggccaaa cattaagcgc ggtagctgt 120
 ttgtggtact cgtggaacag ttcgttattg ttggttctac aatatgtgtt agttatt 177

<210> 426
 <211> 114
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189011a09b1
 <400> 426

cccacgcgtc cggatttatt atgttatgct gtttgagact aagtatctgt gcaatgagta 60
 ctgcaaaacc tccttgggat ggtcttggtta gaatgaaaat ggttctacat taaa 114

<210> 427
 <211> 311
 <212> DNA
 <213> Triticum aestivum

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<223> Clone ID: uC-tsfl189011a10b1

<400> 427

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gagaggaact gatgtggcta tcaagcgcac caagaaaagc tggttttacag gacgatcatc 120
tgagcaagaa aggctggcac aagaattctg gcgagaagct gagattctgt caaagcttca 180
tcatccaaac gtcgtagcct tctatggcgt ggtgaaggac gggccgggcg gtaccctggc 240
gactctgacc gagttcatgg ttaatggttc tcttcggcat gtcttgacgc ggaaggacaa 300
gtgtcctgat c 311

<210> 428

<211> 386

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011a11b1

<400> 428

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gaatccgccg ccgcccggca aaagggatcc aaagctccaa tggctggcaa gtacatcgtc 120
gccggcctcg tcggctcctg tgatcatctg tatgcctgtg actacatcgt ttctcagaag 180
aagatcttcg gtggcaccat cccagggact gtgtccgaca aggagtgggt gaaggcgacg 240
gagcagaggt tccaggcctg gccccgggtc gctgggcccgc cggatcatcat gaaccccatc 300
agccgccaga acttcatcgt caaggacctc aaccctgag gctcaagatc ttaaggtttg 360
cggtcgggtg gaacctttac cctgat 386

<210> 429

<211> 241

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011a12b1

<400> 429

ctcagcgagg cgcgcgaccg ccccgttgca gatcatatgg cggctgaagc gggtcttcaa 60
cgtcggggac gagagaaagc tccgggaatc cgtgcgcctc gtcgacgggt tcgccgcgga 120

atatgttggt t

431

<210> 432
<211> 323
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189011b08b1

<400> 432

ggggctgacc acgtcgaggg gacgggtcaag gccgtcgtcg gccccgtgta cgaccgctac 60
cacgccgtgc cgctcgacct cctcaagttc ctcgaccgca aggtcgacga gtctgtccag 120
gagctggatc gtcgtgtccc gccggctgtg aaagaggtgc cgacctatgc tcgctctgca 180
gcagctgagg tgcagaagac aggcataatg ggcacagcaa ctggcctggc caagtcggcc 240
attgctcgtg ctgagccaaa ggcccgtgac ttgtataccc gctatgagcc tgtggcggag 300
cgcaaggctg ctgaagcctg ggc 323

<210> 433
<211> 460
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189011b09b1

<400> 433

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ttccagaaat ttttgttttt gtgtaaactg ctgcagatta ggctgctgtg ccagtccccg 120
ggtcgccctc ataaccattg gaacaaaaaa tggcgagcca gccgtgttct acaaatgcca 180
tcctgttagc agcagcagcg ctctcgctgt cggcgagcaa tacaaacttt attgttaata 240
tttcgttctt gtgattatct ttcgtgacga gaaaaggata cacagctgtt gtaccagaat 300
aagtaggcag cacctttggg aaattgtaca agcgtttgga gtcttttgga ggggtttgta 360
cgcatattgta tcgtcgacaa tttttagttg caaagattgt gtaaactctt gtttgactgt 420
tggtactgat ctgtctgcaa taggaagcac ctttttactc 460

<210> 434
<211> 69

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189011b10b1
 <400> 434
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 aagcatcca 69

<210> 435
 <211> 244
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189011b11b1
 <400> 435
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 acatgaaatg atgctgctgt atgctttatg ttgtctggac agtatgcatg ctgaaagagc 120
 ctgtgatgtt tctgtattct gaagatcgat ttgtatgaca taactgtaac agctacgtta 180
 tcttaatggt gatatgttta ccctgttcct aagagtaaag aaaagaaccc actgcttgtg 240
 tatt 244

<210> 436
 <211> 370
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189011c01b1
 <400> 436
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 cacgctcctc atcacccccg tcgtcggcac ctaccagtat gcgatgtggt acaaggagcc 120
 ggagaaagct gtccacaga tactaaagggt ggagctttct ccaatatcgc agcagttgga 180
 atttccatgt tctataatcc accaagagtg atttaacatt ttcggaatca cttctagttg 240
 tactcttttg ctctttccgt tgcatatgca atgatgcagt aagtgtgact tgcaaacct 300
 ttttgaggcc tcaaatgttg agttgctcat cactggagtg attttgtgca ataaagcaaa 360
 ttaaccagtc 370

<210> 437
<211> 282
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189011c04b1

<400> 437

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ccccgccggt cgccggaggc atccaatcca agcgccgccc gcgcgcccct gctccgacct 120
gatggcggtg ggcgcgcccc cgcgggcgca gtcgttgctg gtgcaggccc tctacgacct 180
ctgcaggcgc acctttctct tccccctctc cgccgacctt cccccggcca gcgcggtccg 240
cgccatatcc tccctcatgg ataactatcag ccccgcggtg gt 282

<210> 438
<211> 352
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189011c06b1

<400> 438

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ccgcgggagcg aggccgacgc catcccgttc tcctcggaga agggccccga gatcctcagc 120
cgcttctccg tggcgccgga ctccgcccag gccgcggaga tgaagcagac gctgcgcgag 180
tgcgaggcga cggcgggcaa ggggggagaag aagtcgtgct ccacgtcgct ggagtccatg 240
gtggacttcg ccacgtccag cctcgggacc agccacgtga gggccgcctc cacggtgggc 300
ggaaaggagg ggtcgccgga gcaggagtac accatggccg gcgtgaggcg cg 352

<210> 439
<211> 217
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189011c07b1

<400> 439

ggagttagct gcactgtaat gctgaagcat gcgctgtaat tttttgtgag acggtggcct 60

<210> 443
 <211> 300
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189011c12b1

 <400> 443

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 ccacgctcga cgacatcaag ccgcagcagc ccgacgtggc cgacggcgctc aatggggctg 120
 ccgcagccgg cgccgacagc ggcagcccgg cggcctcgag ctcgctcggcc gcgttgctgt 180
 cccagtgtct gccctccgcg gtcggggcgt acgtgctcac caccggaac atctcgggga 240
 tgctcgacgg gtggggccagc aagggccgca gcgccggcgc cgcggcggac agcccctccg 300

<210> 444
 <211> 77
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189011d04b1

 <400> 444

 gtcacccagt gttagtggag tggaatgata ctttttacta ggtgtggagt gggagtgcta 60
 tgcgcggtgt cgcgtga 77

<210> 445
 <211> 468
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189011d06b1

 <400> 445

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 cctcccgtct cttcctcgcc gccgtccgcg gtcgcaccgc ctccactgcc ccgcgcggac 120
 gcgcggtccc cattcccgcg gcccctcccc gtcgcatccc tgcctcagcg ccctcctccc 180
 ctctcgccgc cgcaaggcca ttggcggcgt tgatggggtc gccggtgttg gttgccgcaa 240
 ggctgacggg gcactgcgcg gcgagcgcgc gggcgtgctg tgagctctcc cagggtactt 300

aaaggacgag ttgctgccct tcgcaaggat acaacagttc ttttgggtgc atctcttttg 360
aagctcttct gagttcagtt cgttttctctg gattctgcaa agttacaaga aactccccac 420
tcccagtgc agcttttgtc tcctagacaa acggacattc tacttgat 468

<210> 446
<211> 75
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011d09b1

<400> 446

tcgcccacgc gtccttcac gcgtccgcc acgcgtccgg ggagctccgg cgggttcgtg 60
acggacgggg agacc 75

<210> 447
<211> 91
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011d10b1

<400> 447

tgattatccc ttttctgacg acctccccca tgagatccag cagcctgcgt ggcgcagaga 60
atcggttctt ttttcaggtt ggacacgacc g 91

<210> 448
<211> 331
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011d12b1

<400> 448

cttattttga gcacttggcc atggcggttca acggcgccca gatgctcgt gccttcaccc 60
tgggcattct cctcatggcc ttctgtgcgg aggctcgggt atgcatgtcc cctagcaagt 120
ggtacaaagg ggacccttgc aagaacctgc gttgcaccaa ggcttgtcac aaagaacact 180
tcaaggggtg gttttgtcc agtaaaaagt cgatcggtga tgacgagctc aatgaagaca 240
atggcgacaa cagctttggc aaacggccta agaaaaaate gaaaaaattg tgcattgtga 300

cattcccatg cggtcaaacc ccaccaccac c

331

<210> 449
<211> 387
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011e02b1

<400> 449

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tcgccgggct caagaaggcc acgtcggtcc ggcccctgcc ggtggtcagg gcccgaggc 120
ccgcggcgag gatgacggtc gtccgggct ccttcgcgtc cgtgcaggag aagctcacgg 180
ccgggctgac cgcggcgcc gtggcgggcg cgtggtgct gcccgaggtc gcggaggccg 240
cgtccccggg gctgtccccg tcgtcaaga acttcctgct cagcatcgtg tccggcgggg 300
tcgtcttcgc cggcatcgcc ggggcagtcg tcgccgtctt caacttcgac cccgtcaaga 360
ggacctgatc gcctcgccgg attctca 387

<210> 450
<211> 87
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011e03b1

<400> 450

tcgcccacgc gtgcgccac gcgtccgcc acgcgtccgc ccacgcgtcc gccacgcgt 60
tcgcccacgc gtccgccac gcgtccg 87

<210> 451
<211> 250
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011e04b1

<400> 451

tcggagaact tcagcgacac ggtcaccgcc gtcgtcgtgc cgccgtacat cgacagctcc 60
gagatcgtga agcacgcgtg gaagcggtag aacctcagcc tcgggctcgg gctgaacaaa 120

ggtcgccccg caaggtcttc aggatcggcc acctcggcca cctcaacgag ctgcaacttc 180
 tgggctgcct cggcgggggtg gagatgggtgc tcaaggacat cgggtacccg gtgaagctcg 240
 gcagcggcgt 250

<210> 452
 <211> 346
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189011e05b1
 <400> 452

tcgcgacgac acggcgggagc tcaaggacgt gctggggcgac gggtagcttg agcgcgtgca 60
 ggggcgcggg ctggtagacca aggagtgggt ggaccaggag gcggctcctgc ggcacccggc 120
 cgtggggctg tacctgagcc actgcgggtg gaactcgggtg acggagtcgg cggcgtacgg 180
 cgtgccgatg ctggcgtggc cgacgctggg cgaccagcgg ctgatcgcca aggtgataaa 240
 gagcggcggg ttcgggctgt ggggtggagca ctggagctgg gacggcgggg agggctcgtc 300
 ggtccgcggc gcggagattg cggagaaggt gaaggaggtg atgggc 346

<210> 453
 <211> 159
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189011e06b1
 <400> 453

tcgcgcgaag gtaatgaaat tatccgagca gcttgcaaat ggagtcctga actagccgca 60
 gcttgtagaag tatggaaggc gatcaaattc gagttcgagc cggtagatac tattgataag 120
 tagattaaac taatgataaa gaagagaagg tgtttcttt 159

<210> 454
 <211> 374
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189011e09b1
 <400> 454

cggacgcgtg ggcggacgcg tgggtgaaga tcacctttga tatcagaaaa cagcctggaa 60
 agccgcaaga gactaccatc catgccactt ttacaaattt gacatctagc aattatacag 120
 atttcatttt caggcagctg ttccaaagt cattcaattg cgactggatc cagctagcgg 180
 taacattggt ccagccaatg gaaaggggtc agtcacacaa ggtttcagtgc tcacgaataa 240
 tcagcatggg cagaaaccgc ttgcaatgcg tatccggatg tcttaciaag tgaacggcga 300
 ggacaggttg gaacaaggcc aagtcagcaa ttttccacct ggagtatagt gccatttgtg 360
 tgtaacctat gttt 374

<210> 455
 <211> 276
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189011e11b1
 <400> 455

gcgatacatc catatctatc gccgccaaga atcgccgaga aatccaggag agccagtagc 60
 tagcaatggc gtctgtgggg ttccggcagca gcgtggcgcc cgtggcgccg gcgtcgtcta 120
 cggcgggggag gacgagcctt cgcccgacgc ggacgctgct ggcggtgccg gggcgacga 180
 ggggcacgcc ggctccggcc aagaaggaga agagcatcct ggacttcacg gtcagcgcca 240
 tcgtcaagga cgagcaggag ttcacgcaga ccaacc 276

<210> 456
 <211> 345
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189011e12b1
 <400> 456

gcggcctcct cctagcaagc tatataccta catagcacag ccatggcccc caccgtgatg 60
 gcctcgtcgg ccacctccgt cgctcctttc cagggggtca agtccaccgc cggcctcccc 120
 gtcagccgcc gctccaacgg cgctagcctc ggcagcgta gcaacgggtg aaggatcagg 180
 tgcagtcagg tgtggcccat cgagggcatc aagaagttcg agaccctgtc ctacctgcca 240
 ccgctcagca cggaggccct cctcaagcag gtggactacc tgatccgctc caaatgggtg 300

ccttgccctcg agttcagcaa ggttgggttc atcttccgtg agcac

345

<210> 457
<211> 406
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011f01b1

<400> 457

tcgcggactc atgggaggac gcgtgggagg acgcatgggc tggcgggtggc ctgggtggtg 60
tcccaaagt tccaactgtg ccaccggaag agcgctacgc gacgcagcta gctcagcttc 120
cagaaatggg tttctttgac ccacaggaga acatccgggc gctgctggct accaatggga 180
atgtccatgc cgcgggtggag cggcttcttg ggaactttgg gcaatagtag actatatatg 240
cagggccagt cacctgtagt agttggcatt gtgaggcttg attggctgta taccctaccc 300
gggtcccggtg agattgaaag gcagcgtctc tagattctat gtgttttaag atggatgaat 360
aaaccagtct ctctgctggc tatectttgc agcttgcatt gataca 406

<210> 458
<211> 83
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011f02b1

<400> 458

aaattaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaggg gcg 83

<210> 459
<211> 109
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011f04b1

<400> 459

tcggcgactt acatttatga acggaggagg tattaaatat ggagctgcca accccatcaa 60
gcagaagatt tgcttttttg gggctggcac ctacaacaag cataaaaaat 109

<210> 460
 <211> 352
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189011f05b1

<400> 460

gccaggtggt ataccggtag cttcaggtgg tattcatggt tggcatatgc cagctctgac 60
 cgaaatcttt ggggacgatt ctgtattaca atttggtgga ggaacttttag gacatccttg 120
 gggaaatgca cctggtgcag cagctaatacg agtggccttta gaagcctgtg tacaagctcg 180
 taacgaaggg cgcgatcttg ctgcggaagg taatgaaatt atccgagcag cttgcaaagt 240
 gagtcctgaa ctagccgcag cttgtgaagt atggaaggcg atcaaattcg agttcgagcc 300
 ggtagatact attgataagt agataaaaact aaagataaag aagagaaggt at 352

<210> 461
 <211> 387
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189011f06b1

<400> 461

tcgctggaaa tcaaggaaac cgatgcagaa atctggaaaa gatcattctc ttctgttgat 60
 ccttccttct ggagtttata gttatagatt tgttgtagat ggagagagga gatgttttcc 120
 tgaccttcca tgtgaaactg atgccatggg caatgctgtt aacctacttg atgttcatga 180
 ttttgttcct gaaagtgttg aaagtgtatc agaatttgag gctcctccat cccagaatc 240
 tagctacagt ttccagtcac ccgaggaaaa ggactttgcg aaggagccac ctgctcttcc 300
 gtctcagctt cacctcggcg ttcttaactt acagaactcg gaggaaatat gtgcacggcc 360
 ccaacacatt cgtctcaacc acctttt 387

<210> 462
 <211> 282
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189011f07b1

<400> 462

cggacgcgtg ggccccacgcg ttcggtcacc gtccggccca aactgaaat ttcacaccg 60
ggttcagtga gtgacgagg tcgttgcttt ggtcttctgc cattcgctgc cccgttttag 120
tttctgcact gcagagctga gagttcagaa taaactttgt gaggaacaca tgcattggatt 180
agtgtgcttc gattgctttt ttatgattgt aatttcggtg tgtgctttgt ataagaagtt 240
attgtggatc aagtaattta atcaagtcca tttgtgttag tg 282

<210> 463

<211> 418

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011f08b1

<400> 463

accacaccct gcaatggcgt ccgcgctcac caacgtgagc ctgtctacct tcgcgcccac 60
ggccagggggc gacgtcctgg cgaggccgca ggtggccccc gcccgctca ccttcccgac 120
ggcgtaccgc ggcagcggcg ccctctcctg cagggcgggc gggccggcca cgccgcccggg 180
catctccgac aagatgtcgg acagcatcaa ggaggcccag gagacgtgct cggaggacgc 240
cgccagcggg gagtgcgccg cggcgtggga cgaggtggag gagctcagcg ccgcgggccag 300
ccacgcccgg gacaagctca aggactcgga cccgctcgag aactactgca aggagaacct 360
cgagaccgac gagtgccgca cctacgacag ctgagcgtac gtgctaattt gttctgga 418

<210> 464

<211> 324

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189011f09b1

<400> 464

tcggtgaata cagatgtgga ttcggtggct tcagacttca tcaagcgtaa gcacatgtct 60
tgggcactcc agaagagcac aactatgtat ccatcttctt aagagaacca aggttcctta 120
gtcatggat tatctgttca tgcttcgtcc agcatgaaag ttcaaataag aggtgctgct 180
tggagggtgct ctagatatcc tgaggttatg ctactatggt gttcttattt gtaacatgaa 240

<210> 467
 <211> 299
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189011g01b1

<400> 467

tcgggggtcg tcgtcatgc agctgccggc agggaaactgc cgtgtcgacc cccgggtcga 60
 cccgccgggc ggcattggact gctcggcgca cgccgtggag ttcgattcaa cactggcgcg 120
 gtccggctctt ttaagatctt aaccgattcg tgggtgctcgt cgggagcggt cgacgtggac 180
 ggtatgctgg tgcaaacggg cggctacttc gaaggggtga aggttgtgag acgcctgaac 240
 ccacaaggaa atgccgactg ggtcgagttt cccaatacct tggccgaagg aagatggta 299

<210> 468
 <211> 218
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189011g02b1

<400> 468

gagggttccg ttactaacat gtttacttcc attgtaggta acgtatttgg tttcaaagcc 60
 ctacgtgctc tacgtttgga ggatctacga attcccccta cttattcaaa aactttccaa 120
 ggcccgctc atggtatcca agttgaaaga gataagttga acaagtatgg tcgtccttta 180
 ttgggatgta ctattaaacc aaaattggga ttatccgc 218

<210> 469
 <211> 368
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189011g07b1

<400> 469

cccacgcgtc cgcattacca ctctcccc aatccaactc gcgcagcagc tccaagagga 60
 tcgtcagcga ccatgtccgg gcgcggcaag ggccggcaagg ggctcggcaa gggcggcgcc 120
 aagcgccacc ggaagtgct gcgcgacaac atccagggca tcaccaagcc ggccatccgg 180
 aggctcgctc ggagggcgcg cgtgaagcgc atctcggggc tcattctacga ggagaccgc 240

ggcgtgctca agatcttcct cgagaacgtc atccgcgacg ccgtcaccta caccgagcac 300
 gcccgccgca agaccgtcac cgccatggac gtcgtctacg ccctcaagcg ccagggccgc 360
 accctcta 368

<210> 470
 <211> 350
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189011g08b1
 <400> 470

cccacgcgtc cgggctgggg aagagcggag tggaggaagt gatggggctg ggcgagctgt 60
 cggccttga gaaggagggg ctggagagcc tcaagggcga gctgctgtct tccatcgaga 120
 aggggtgtcaa gttcgcgcag gagagctagg tgtcaagtgc gaacggttca cacttgaact 180
 catgcaatct ttgttcggcc gcttttttgt tgctccaaa cccggttgtg ctgccccgca 240
 tcgtggcgtc gtcgtgctcc acaataaaat gtactggctt tgatgtcgcc agactgaact 300
 gaacctgtag tatcagaaaa tgcagacacc ggtgcctatg tgtttacagc 350

<210> 471
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189011g10b1
 <400> 471

cggacgcgtg ggcggacgcg tggggggcggg actaccgct gagtttaagc atataaataa 60
 gcggaggaga agaaacttac aaggaaacca tttccaaat tattctctag gacctcttca 120
 ttattggggc taccaatagg cctgaccttc ttgattctgc acttctccgc cctggccgat 180
 ttgataagct tctctacatt ggtgtaaata ctgaagcatc atacagggaa aggatactga 240
 aagcacagac tcgcaagtac aaactacacg agaatgtatc tctcttgctg attgctcagc 300
 actgtcctcc aaacttcaact ggtgccgata tttatgcatt atgcgcggat gcatggtttc 360
 atgctgctaa gcgttccgtc aaaacgcttg aagctgatcc t 401

<210> 472
 <211> 396
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189011g11b1

<400> 472

aagcgcccca tgtttactac tgcctcaagc ttctggaagc cactggaatt tccactgttc 60
 caggctcagg ttttggtcag aaagaagggg tgttccatct gaggacgacg atcctgcccg 120
 cggaggagga catgccggcg atcatgtcga gcttcaagaa gttcaacgac tcgttcatgg 180
 agcaatacca ggaccactcg aggctgtgaa gagagaagaa gacaaccgca tctacatata 240
 atacaatgct gctcttttct accagcaatt aaagttgatt aattagctgt aagctgtaac 300
 tatggtgaag aaaactggtt gctatgcttg atatgtatag gggggaagat atatgcggaa 360
 atattcggtc catttactac ataatatgat gataact 396

<210> 473
 <211> 209
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189011h01b1

<400> 473

ggagatgtca agtgtcctca ggaagatgag gtctggtggt ggtggtgccg cggacaagaa 60
 gaaatagatt ttgcatgttg gtgaaattct atttatctca acgctttgcc ccgtattttc 120
 atattatgcc aagttttag cctgtggcaa ttggatacga atgtagcaca ttgcatttca 180
 agttcagagt aaaactatga atttttgac 209

<210> 474
 <211> 361
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189011h02b1

<400> 474

ctacgtactc tttcccactt agctagctag cagccatggc cgccctctcc tctgcagccg 60
 tgtccgtccc ttccttcgcc gccggcgcca aggtggccgc tccccggagc agcaggaagg 120

tgggtgcgcgc gtccctgggc aagaaggccg ccagcgcggc cgtggccatg gccgcgagcg 180
 cgatgctgct gggcgggtcg gcgatggcgc aggacgtgct cctgggcgcc aacggcggcg 240
 tgctggtggt cgagcccaac gacttcagcg tcaaggacgg cgagaccatc accttcaaga 300
 acaacgccgg gtacccgcac aacgtggtgt tcgacgagga cacggtgccc tccggcgctcg 360
 a 361

<210> 475
 <211> 309
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189011h04b1
 <400> 475

tcgggtctat gtcacccctg caaatgatgc caatgttgat tgatactgtt aatgcttttg 60
 tgttggtgat agtgctttca tttgttggtg gttagtgaat cgttggtgag ggcagtagtg 120
 atgttggtgt agttagtga tttgtctgtga agttttctgc ttttcttaca aggataactg 180
 attccttggt aattagttga ctactactta actcgcataa tgaggaatga tgcatacttt 240
 tgatgcaaga ctgaataaat aatgtaattg tgttgtgtcg aatttatgtt cattggattt 300
 tggactcct 309

<210> 476
 <211> 304
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189011h06b1
 <400> 476

tcggattata tggacacatc tgctggaatt gaggaggagt atcaccacaa aaataatcgt 60
 gtttattgct ggaaagggtt acggtttcaa gccagacaag atctggaagg attttcttga 120
 ttttgtgact acgggatcga aggtgttgta cctcccgagc tgttgccacc cgacgtccgc 180
 gccaaattca attctaagcc aggcgagaag gccaaacggt ctaaacggga agacacaaga 240
 ggcacttcag ctcaccccaa ggagccacag gttgccgcgg ccacgccga gacagacggc 300
 ggcg 304

<210> 477
 <211> 414
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189011h07b1

<400> 477

aggatgaagag catagtgaag cctgggtgct cgcaggatgt tctcaaggcg gcgctgagtg 60
 ccatgtcttc cgtgacggag aactgggcta tcatgacttc ctcttccact ggccagcccc 120
 cactctgagg gccaagcacc acttcagtgg gttacgaatc tactacgcgt tttctgattc 180
 tcttttgctc catctgactg ttgggattcg agacagtgat cttgtcatcc catgggttat 240
 tcttttcccta gctttttgga gagttttatt atcatttttg gctctgatag cgtatgcggg 300
 tgtgctggtg gcgagattca gcttgaataa ttttgatcaa actgtcggct gtgatctatt 360
 aataatctaa attttgagag ggtccatctc tagcgctctc tttgattcat agga 414

<210> 478
 <211> 326
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189011h08b1

<400> 478

cccacgcgtc cgtttttttt tttttaaaca tataacgaag acttttatatc aaaatccaac 60
 gcacagccac atgatagatt cacattaata aaggttccca aacgtcacca tcgaacatct 120
 tacgaatgat aaaggagcat atttcaggta gcatatccta acaggactgg tgatattaaa 180
 aaactaggat agcaagagca gtatggcaac cggcagatcc accgagctta atcgatctcc 240
 tggagcgagg cgccggtggc cgtggcaccc ccagcggcgg cggtgacgtc ctcggccgtg 300
 aacttgccct tggccttgct agcagc 326

<210> 479
 <211> 202
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189011h11b1

<400> 479

gccgaggctt ttttttggag gacagatggt gatgagtgtt cagtcaagcc tgcgccgtat 60
gctaagcctg tggttactga attaagctag agatttccgt ccattttctt gttccgaggg 120
tggatctgga tctcattacc cgtatgctat tactttgtgt ttgacggttt gacctgagta 180
cttggttata ttacagtttt gg 202

<210> 480

<211> 279

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012a01b1

<400> 480

gcgcccacgc gtgcgcgcta gccaaagcaag acccgagcaa gccacactct ccagcaccag 60
cagaggcccg cggaagca ggcgagcaca gcaacaaatg gccaccatca gcgccgccgc 120
ggcgaccacc gtcggcgccc gtgccgcgat cgccaggcca caggccctag gtctgcccc 180
gctgaggacg aggagcgaga gggtagagtg cagctactcc aaggacgcca aggaggcgac 240
ccctgccgcc accgtgcgcg gggccagcgc gtccttgct 279

<210> 481

<211> 369

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012a02b1

<400> 481

agcgtgataa aatactgatt ctttttctag aagattaata aacaaatttc tcaggttgtc 60
ctaatttttc aaaaaaattg gagttgcaga agtattcgag agttacagat tactacagac 120
tgttttgttt ttgacagatt ctgttttcga tgcatagttt gtttgtctta tagtttatat 180
ggcttatatt gcttaatata aattgtagaa ttgatagggt acagtaggca tcatgtgcga 240
aaaattatga atcttatctt gacagtacct aagtggatgat ttgctttatt atactaacgg 300
agcttacgag ttttctgtta agttttgtgt tgtgaagttt caagttttgg gtaaagtttt 360
gatggacta 369

<210> 482
 <211> 414
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012a03b1

<400> 482

cgcacgctcg ctgactacaa catccagaag gagtccaccc tccacctggt tctcaggctt 60
 cgtggtggca tgcagatctt cgtcaagacc ctcaactggca agaccatcac cctggagggtt 120
 gagtcctcag acaccattga caatgtgaag gccaaagatcc aggacaagga gggcattccc 180
 ccggaccagc agcgtctcat ctttgctggc aagcagcttg aggatggccg cacccttgcg 240
 gattacaaca tccagaagga gtccaccctg caccttgtcc tccgccttcg tggaggcatg 300
 caaatctttg tcaagaccct cactggcaag actatcacct tggagggtgga gtcacttgac 360
 accatcgaca acgtgaaggc caagatccag gacaaggagg gcatcccccc ggac 414

<210> 483
 <211> 390
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012a04b1

<400> 483

gctacgcaaa tacctgagggc atgagcagag gaagagcctg agaagattca tctcattcgt 60
 ccatggcaag gatccaccaa agaacgacga gaggcgggtcc atgagcctgc ttggaagctc 120
 gacgccggca acgccgatga gcagccttac tacccttgag atagaaaggc cggccatgga 180
 agtcagaaac accagcgtta ttgaaatgga aagctagtgc atgtgtacaa agctagtctg 240
 tgcttttatct cccaaagcag cggggcaact gttttgtgtg aagcaacaat gcggccgact 300
 aacctaggtc ccggtaacct aggttggaag gccaaacacc agggatgtat agaggggggtt 360
 caaatacttc ttaaaggaag gggttgataat 390

<210> 484
 <211> 75
 <212> DNA
 <213> Triticum aestivum

<210> 487
 <211> 411
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189012a09b1

 <400> 487

 caacaacaac aacaaccgtt gagccaggtc tccttccaac agcctcaaca acaatatcca 60
 tcaggccagg gctccttcca gccatctcag caaaaccac aggcccagg ctctgtccag 120
 cctcaacaac tgccccagtt tgaggaaata aggaacctag cgctagagac gctacctgca 180
 atgtgcaatg tctatatccc tccatattgc accattgctc cagttggctt cttcggtact 240
 aactgagaag agaagaactc tagtagtaga catatgatac accgttttct tagtccatgg 300
 tttggtcggt gtagcgggtga aaaaataaag tgacatgcag tatcatgtaa gaaccggaac 360
 tatactagtt caaacatggg aataaaagac aaacacatgt cttgtctaca t 411

<210> 488
 <211> 274
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189012a10b1

 <400> 488

 attgggtagt tcgtcttctt ttgccatctg aggatctgct agactctgat gctgccttca 60
 tcataccgca tcattcgttt cgttccacaa ttttgagagc tcagttcggt aatagcttag 120
 caaggttttg ttcgcaaatt ttgttcttgc cagatacggg ttatatacctt tttatgtctt 180
 gtcttaatac acctgcatcg ttcagggtgc cctagtagag atgatcagag gacgacttgt 240
 gtccatctca ttcattacga atatttgccc ttcc 274

<210> 489
 <211> 79
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189012a11b1

 <400> 489

ctgggattgg ctttgggcct ttctgcgca gcttaggtgg aaggcgaaga aggccccctt 60
ccggggggggc ccgagccat 79

<210> 490
<211> 431
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012a12b1

<400> 490

cggtttgatc aaggcacgag gaagaatatt caaatgatca tgggccc aaa tgttttctgc 60
tggctttgcc ccaccgcgac aggacatctt aaggatggca ccgagttcca gaatacgaac 120
aactgatcag agacgaagaa cagcattgct gcataaacac aacatgtaga cgtgggaatt 180
tatctgctga ccagattgat cttttctgcc attgcgttgt tgtcaccag gcagaggtga 240
agagctcggg cagtttcaca atcttgtaaa tcatgtaaac ctcacctgaa attatatgtg 300
tgtgtatgct gtaaagtagt ttgggttttg agtactgttg tgtactgact gagtcattca 360
attgcaa atg taaccagaat atgtttgtca ccatttgagg tgtgaaaaag ggaatggaaa 420
ttggatatat g 431

<210> 491
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012b02b1

<400> 491

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agtgggcctc gctccgaggg ccgccgagaa gagtaagaac cagaagtagc aagaacgatg 120
aacccgatct gtttcctttc ctgcgatcgc atcttacaag ggtgatggac tttatgtgtg 180
atgagaaagg gatttactta tatatataac ctacgtgtat tctctttgtt atttccttgt 240
atgttcgttc ggaacaagca tgtagattg tgtaagctga tgtgtgtgta tctactacta 300
ctgcactact ttgatttgat tcgcgtgtgt tgtatgcggg ttccgttgta aattgggtgtg 360
ctctgtctgt accgcaaact cttttctttc 390

<210> 492
 <211> 238
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012b04b1

<400> 492

tcggttcaag ggtgcataca accagttgag gaagcacgct agggaggatc atcctgctgt 60
 ccgaccaatg gaggtggacc ccaatcgaca gcgagactgg cataggatgg agcagcagcg 120
 tgatcttggg gatttgttca gcatgctgcg ttcggggatc agtggcagag aagatgggggt 180
 tggagtcaga gaaagtgacc agggcgtgag tgagagatcc ttgcacgcca cgtccata 238

<210> 493
 <211> 398
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012b05b1

<400> 493

gagctaccga ggtgccgatg tcttctgct cgccttttct cttatcagca aagcaagcta 60
 cgagaatgtc actaagaagg caaccatct cctttgatcc tctctgtttc cttgctccca 120
 ctctcgttga cttgtttag tttcataaat tgtttgttat cttgcttatg agatatgaca 180
 tgtgcttgta attttccagt ggatccctga gctacggcac tatgctcctg gtgtgccccat 240
 aattcttgtc gggacaaagc ttgatctgcg ggatgaccag cagtttttcg tggatcaccc 300
 tggggctgtt cctatttcca ccgctcaggg tgaagagctg aagaaggtaa ttggcgcgac 360
 ggccacatc gagtgcagct caaaaacaca gcagaaca 398

<210> 494
 <211> 78
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012b08b1

<400> 494

cccacgcgtc cgtccacgcg tccgcttctg acaatgaaag cataattggc catcggctctc 60

agttgtagtt tgtcgac

78

<210> 495
<211> 156
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012b09b1

<400> 495

tgccgggcaga aggggaactg cgtgggacgac gtcgacggcg gcgacgccc agggacgggg 60
cagggcgcca cgcactgagg gcccgacac aggcacaccg tgccggtgac gccgacgcc 120
agcgcgccgg cggccgacag gaacagccac agccac 156

<210> 496
<211> 74
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012b10b1

<400> 496

ggcaatgtaa cttccctgtt gataatatgt caacaagcac taagtatgat tctatattga 60
gtctttcaca ggtg 74

<210> 497
<211> 367
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012b11b1

<400> 497

ggagacctga tgcgggtatg agtacgaccg ggcgtgaacg gtactcggtc ctccggattt 60
tcatggggccg cggggggcgc accggacacc gcgcgacgtg cgggtgctctt ccggccactg 120
gacctacct cgggtgaac cgtttccagg gttggcaggc cgtaagcag aaaagataac 180
tcttcccgag gcccccgccg gcgctccgg acttccctaac gtcgccgtca accgccacat 240
cccggtcggg gaaatcttaa cccgattccc ttccggggga tgcgcgtgat cgcgctatct 300
gccgggggta ccccgccct taggatcggc ttacccatgt gcaagtgcg ttcacatgga 360

accttttc

367

<210> 498
<211> 267
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012b12b1

<400> 498

gccacccgac cggccggcga cgatgccgat gtcaccccc gacgacgttc gcgccaaggc 60
ggagatctac accggcgacg cggcggggca ggagaagacg cggctgatgc tggcgggagac 120
ggagctcccc agcggcctcc tgccgctcaa ggacatcatc gagtgcgggt acgtggagga 180
gactggcttc gtgtggctca agcagaagaa gcgggtggac cactacttcg ccaaggccgg 240
ccgccatgtc ttctacgcca ccgaggt 267

<210> 499
<211> 440
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012c01b1

<400> 499

cggacgcgtg ggcggacgcg tgggcgcggc ggcgcgagg gaccaccacc accaccaaca 60
ggacgaggac ggggccggcg gcgggtactc tctgttcgcg ccggggccgt acgggcagtt 120
cggcaccgac cagtcgttcg cgttcgccgg ggccgggcag cacggcggcg tctcgctcac 180
gctcggcctc cccacggcg ccggcgacca gacggcggtc ctcatgggag gcggcagcag 240
caacggcgcc gacagcggtg gcagcggcgc cgccggctac gacatgaaca tgcagaccac 300
caagtccttc gcggctcagc tcatgagaga ctctgtggca tagtatgaat atcaccacta 360
ttacatagcg caatccatta atcaaataccc aaaaaaaaaat cggttaatca atcaatttag 420
ggcttggtata gaaaataaaaa 440

<210> 500
<211> 434
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012c04b1

<400> 500

gcattaccaa taaggcatga caaagcggcc atcggttgatt gttgcaaata aaatagatga 60
agtgaggagct gacgagatgt atgaagaact gaagaggaga gtgcaagggtg ttccgatatt 120
tccagtgtgc gccatcttgc aagagggagt acctgatctg agagttggcc tgagagacct 180
tatggatgcc tcggatccgc aagggtgcga tttgagcaaa gttattgtag actaaaaggc 240
tttgcccctc gttggagaag aattgttctc caattttttc cccttgagca ctgtctgctt 300
acagatgcac tgtagaccgc tgttgcaaaa attgctctaa ttttctgtgt tgcagaatag 360
atcatccatt gtattagaaa attcagtgtg ataataacta agggtaacca gtatgtatgc 420
tttggctctt gata 434

<210> 501

<211> 214

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012c05b1

<400> 501

cccacgcgtc cggccccact tagtcccaac tagtaggata gtttatggag gattagattt 60
ccttgccggac tgtaccccaa caaggttagg aaatggacag aatggtgtgt aaattgtgct 120
tgacatgtac tgtaggtagg taggtaggta catacgtact ataaggcttg ttgtatcgac 180
cttccttggt tagcttgaag agtctttcct tttc 214

<210> 502

<211> 362

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012c06b1

<400> 502

gcggagagcc tatttggacg ccttacaatc gtgcccatga ccatctccca gctagaaagg 60
agtatgtcga caagattatc aacagaggtg ggaaccaaac cgtcgaagct cgttgatggc 120
tctacagtg ttcggcagcg agtgagtctt ctgtatgtat ctacatatca caccaaaagg 180

ttaccgaata agatgtgtga ttggctttcg ccggtgtaccc ataccagcat cgatcctgta 240
 tcacttgtgt ggtagtttgc acaaaacctg cttgaaaatg tttcatggaa acttctttgc 300
 ctggcgatga tgacctgtatt gaataataaa tgattcagtg tcaacaacgg cgtaatgaaa 360
 ac 362

<210> 503
 <211> 159
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012c07b1

<400> 503

gtttgttgc atggctgtgg aagctgttta acctgtgtta tgtccaattt agctgttta 60
 ttctagtctg gttatgttcc aagacagagt tttatgtaat gtggggatta tatgtgtttg 120
 tgactgaatt ttatgcacct attaatTTTg cggcgtctc 159

<210> 504
 <211> 139
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012c08b1

<400> 504

cccacgcgtc cgtggacgcg tggggtgaaa caaagcaagc ggtactgcag cttttttttc 60
 acctgtacga ttattcatcc gatgagggtca tgtaacagta tttgattggt ttatcgaaca 120
 agaatgatgg taaacttcc 139

<210> 505
 <211> 431
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012c10b1

<400> 505

cccacgcgtc cggccacgcg tgcggctccc atcgagagaa ctgaggcgtc tcttgcttca 60
 gaatctcata atcaagtgca agctgctcca tttgcatctc aagatcctca cgggtctttct 120

tgtacagctc gatctcatca ctcagttcaa gaatcttctc ttgtagttca gaactagcga 180
cgccatcact cttcttcacc aatgcatcca acataagctc gtcttcttctc tcttggtacg 240
agcttggttc agacatgtcc atcttggtgc cagcactgtg cacatttgac agtgcacgtc 300
catattctgc ctctgggga tctctactg tttcttcttg caaatggac atatctctat 360
tcttctgctc gagcatttca tcaagatcct tcacagccag aagcagctca gagttggact 420
cctgcatttt c 431

<210> 506
<211> 63
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012c11b1

<400> 506
aaatttaaaa atttaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaa 63

<210> 507
<211> 157
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012c12b1

<400> 507
atcgtgggat atgtttccct ggtttggaga atataggcgc aaatttggtt gtaacatttt 60
cttcgctga atggttggat aattgaatag tttgttgtag tacgatctgt ggactccttt 120
cgtccgaagt attgaatcat atgcttaaaa aataaaa 157

<210> 508
<211> 246
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl1189012d04b1

<400> 508

cccacgcgtg cgctaaggca ttcctatggt tttgttctat gagatgttta ttcctatggt 60
 cctttacata ggcaattgga tgattagtagc tgtcagcatt gtttagcttg ccttgctcct 120
 ccagcgaaac gccacacatt gttttttttt ccccgcaaag aaagggaact aggacaacct 180
 gtgttgctaa actgaagaat tgcgtgaaac tggctgggtg atgcttgtgc aatctttgct 240
 ttcgng 246

<210> 509
 <211> 183
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012d05b1

<400> 509

gccagatcat gcttttacta gttggattta gcagcgtctg tgttcagtaa acgaattttt 60
 actatgagta tgttctagac tgaaatgtaa tgttggaacc tgcgaggatt ctgtgttatt 120
 tcacttgctg gagaatggag atatgttacc ttatatattc tataatttga ttggattgtg 180
 cac 183

<210> 510
 <211> 284
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012d06b1

<400> 510

catttctgaa gatgggaaga actgaaggca atgaacatct attttctcgg aaaagtgcag 60
 gcgcatgaaa tgaagaagat tgccatgcatt agctgctttt acactcgggc tctatgaatt 120
 tacttaatcc tcttgtaact gctttgatga caactggcga gagaacttgt attatgtctg 180
 ctctcacgaa tgctccttca tgtttgtctt aagtgagtac atgttgcaaa ttcatttgta 240
 cactttatgt ctgttgaagg tgaaattgaa cacattgaca gctt 284

<210> 511
 <211> 464
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012d08b1

<400> 511

gacggtgcag gtgaccgaca agggcgccga cggcgggcgc gcggtggtga actggaccat 60

ggacttcgac aaggccagcg acgaggtgcc cgagccggac gtcacaaagg agaccgcccgc 120

caagaccctc cacgaccttg acgactacct tctcaagaac tagagtagct tttactagct 180

gcctcgctgc tggccgcccgc gtccgctgctc cgtccatcca tccatccatg tctactgtca 240

tcgttacttg ctgtctgccc tgttccccca tctagcttac tctcacgaaa acgaccgtgt 300

gtaccatgta cgtgtgcata tgccctgcgct gggacggacg cgtgagtagt agtggactga 360

taataaagtc ccaactttat ggtcacgtat acgtacgaat ggtgttagat ttgtgtgact 420

tggtttgatt cgatctgcaa gaaaaattta gtatgttgtg gcgg 464

<210> 512

<211> 383

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012d09b1

<400> 512

cccacgcgtc cggcccaacgg tctaatacga ttcaaacgca ccgcttcctc gtgtccgaac 60

taagcccaaa tcccaccacc accgccgctg gtgctcggcg cgatggcgca gaaggacgcc 120

gccaatggca acggcgccac cacgcgcccg ccgcccactc cctcccccat ccgcttctcc 180

aagttcttcc aggccaacat gcggatcctg gtgaccggcg gagctggctt catcggctcg 240

cacctcgctc acaagctcat ggagaacgag aagaacgagg tcattgttgc tgacaacttt 300

ttcactgggt caaaagacaa cctgaagaag tggatcggac acccaagatt tgaactcatc 360

cgtcacgatg tcaccgaacc act 383

<210> 513

<211> 188

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012d10b1

<400> 513

CCCTGGG = GCGGCGG

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acgagctatc tagttttgtg acgtgagttc acactttgta gagcttgaga cagtagcaca 120
tattcctgtcg ataccagttt tagcccttcg ttgtgttggt cggatgctta atgctatggt 180
tttgacc 188

<210> 514
<211> 330
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012d11b1

<400> 514

ctctctccct ttcggttcgg gttctgggtc ggttcgggtt cggttcgaga gagaggccga 60
gtagctagcc tagtctaggg ttctcggtaga gaggaagtga gatccatggc ggagacggag 120
taccgctgct tcgtgggcgg cctcgccctgg gccaccgacg acaacaacct ccagcaggcc 180
ttcagccagt acggcgagat cctcgacgcc aagatcatca acgaccgcga gacggggagg 240
tcccgtgggt tcggcttcgt cacgttcggc agcgaggagt cgatgcgcca ggccatcgag 300
gagatgaacg gcaaggagct cgacgggcgc 330

<210> 515
<211> 412
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012d12b1

<400> 515

cccacgcgtc cgccccacgg tccgcccacg cgtccgaccg gcgaggccgc gtcgccgaag 60
aatacacgga ggaggtggcc cgggtcggcg tcggcgccat ccggtgcagg ccacgggcct 120
gttccaagt gcgtctgcgc gccggccacc catgccgggt cttcaagtg ccgtttccac 180
cgcaccaact cccagggcca cggccacggc cagggaagcc gtccttcttc gcctccttca 240
ccggtcgcgg ccaacgcggg gccgcggcac ccggcctcgc cgtcctcgtc ctccggcacc 300
gtcacgacct agtgacgcaa ctcaagcatc ggcttcgaga atcaagaacg ctcgacaatg 360
aaaagggaaa ggaagatcat atacatatca taagaaagg agttttatcta ct 412

<210> 516
 <211> 241
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189012e01b1

 <400> 516

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 atgcccattct gaaaacccta gccctgatgc ccgatcccgg cgagcgagat ggccaaccgg 120
 aggggtgttct ttgacatgac cgtcggcggc gcgccggcgg ggcgcatcgt gatggagctg 180
 tacaaggacg cgggtgccgcg gacgggtggag aacttgcgcg cgctctgcac cggctagaag 240
 g 241

<210> 517
 <211> 244
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189012e02b1

 <400> 517

 caaaaatggc aaagtgtgag agagatatcc accaacaact tcaccattcc aaattgagaa 60
 ggacattcag aaactcactg cggcataagt gcttttgagt ccggcttcag ttaagcactc 120
 ctgtatatat tgcctttttt tttcttcagg aaactagagt tttacttgtg attatgactc 180
 ttgtgcgata taatgttttc cattcctgta aagtaattca ctgatatgta tagacatttc 240
 cgaa 244

<210> 518
 <211> 353
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189012e04b1

 <400> 518

 ggcggtcagt cggaggtgga ggcgacgctg aacctgaacg cgatgaacca ggcgccgaac 60
 ccgtggcacg tgtgcttctc ctacgcgcgg gcgctccaga acacctgcct caagacgtgg 120

ggtggggcggc cggagaacgt ggccgcggcg caggaggcgc tgctgctgcg cgccaaggcc 180
aactccctgg cgcagctcgg caagtacacc agcgacggcg aggccgcgga agccagcgag 240
aacatgttcg tcaagaacta cagctactga tccgtcggcg agctatctat ctaattatct 300
acctatggag ggagagtgct agtagcgcct tgagcagctt gagggcacct tag 353

<210> 519
<211> 328
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189012e05b1
<400> 519

gcggacacac acacacaagc gaaaccact ccaccaacc gtctgggagc agagcagagc 60
ctctctttgt ccttcacctt cgtcttcttc cctctcggca gctcgacctt tgcattggcag 120
cagtggctag ctccaagggg cgggtgatcg ctgggagcct cgtcgcgcgc gtactcgccg 180
gcaaggccaa cgccctcccc aggagggcgg tgcacgcgtg ggcctacgac aagaacgtgg 240
acgagcaggt gcgcccggcc ttcgtgccgg acgatgtgat cggcggcgcc gggagcccag 300
acaagtactg gggccctcac cccaccac 328

<210> 520
<211> 179
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189012e06b1
<400> 520

tcgcggacgc gtgggcggac gcgtgggata cgggtctactg ctatgcttgg cctgcactcg 60
gtttcataag caggtacata ttctgcaatg ctgtgaacat atattatccg tgcttccagt 120
gatggatatg ctagttttat cagcaataat aaatatataa tgatccgtgt tgcctctg 179

<210> 521
<211> 279
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189012e07b1

<400> 521

tcgcggacgc gtggggtct cgtctctctc ttctctctgg tcctccaagc caagaaactc 60
ctcatctcca ccgtccgccc gtgaaggaag gaggcgatcg gccatgggga agatgtgctg 120
cagccaggag gaggacgagg cgggggttaa cctgctgccg ctggatgatg ccgccttcgt 180
catcatgctg ctcttcgtcg gctgctcgcc gccgccccgg cgcaggcgct gcgtcgctcg 240
tccgtgctac tgacctgacc tgacctcatg gtggccggg 279

<210> 522

<211> 401

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189012e08b1

<400> 522

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aggtttatgg aaaagaaggg aaaaactgct ttacggaatc tcctttggcg gacactctta 120
ctcagtttta ccagaaatca ccaatatcac atatttccaa ggttaagaca ccaacactct 180
ttctttctcg agcaaaagat ctccgtgttc ctgtttctaa tggcctacag tatgcaaggg 240
ctttgaagga gaggggggatt gacacaaaaa ttattgtctt ccagaagat attcatggac 300
ttgacaagcc acagtccgac tttgagagct tcctcaacat aggagtttgg ttcaagaagt 360
acttgagcaa ataagcattg ngctcttaaa cacaatgatc t 401

<210> 523

<211> 195

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012e09b1

<400> 523

ttttctctc ccaataaaga tgaggatcga catcatccaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacac aagaacacca 120
gagccgatga caacgaacaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaacaaag 180
gggggggggg tttta 195

<210> 524
 <211> 215
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012e10b1

<400> 524

cgcggaaggcg ctgatgaaga ggcgcacata ccttctggag atgaatggct tctaggagtt 60
 cttcctgggt atctgcttgc tgggtgaagc aaagggctgt ttggctgctt taaacttttg 120
 gtctgtgtaa tagtctgtgc ttgttgtctg gtgtgttagc tctttgtaca gtggtgacat 180
 ttggttagct atatgaaaaa catatcaagt tggtc 215

<210> 525
 <211> 421
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012e11b1

<400> 525

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 gcagcgcccc cctcctccgt ctccgtcagg gccggcgct ccgtctcggc gaagctgacc 120
 cctcgccagg ccgcgagggc tgggttcggt ggcagggca ggcagctc gggcaggaag 180
 tgcggcgccc ccgtgcgggc gtcgctcttc tcgcccaagc ccgcggtggc catggacgcg 240
 aggccgacca aggtgcagga gctgcacgtg tacgagctca acgagcgca ccgcgagagc 300
 cccgcctacc tccggctcag cgccaagcag agccagaacg cgctcggcga cctcgctccc 360
 ttcaccaaca aggtgtacaa cggcagcctg gacaagcgga tcgggatcac ggcggggatc 420
 t 421

<210> 526
 <211> 429
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012f01b1

<400> 526

ggtatgaagg ttacatata ctcaagtggc agtagagagg cacagaagct actatttgga 60
 catacatctt atggtgatct gcggcaatct ctgtgtggtt ttttcgacac cacaaccgga 120
 aacaaaagag aagcaaggag ttatttttgag atctcgcaat cacttggggg ggacaatccg 180
 tctcaaactt tattcatcac agatgtgttg caagaagccg ttgccgcaa gagtgcaggt 240
 ttcgaggtaa taatctccat tcgcccgggg aacgcaccgc ttcttgcgaa tcatggcttc 300
 cggactatca gttccttcag tgagatctga caaatgtgca agaaacgaac atgccaggga 360
 atctctattg ggtgtgtaac atgacagtgc ttcgtggccc cccggatcat gttcttgtaa 420
 tagtagtat 429

<210> 527
 <211> 399
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189012f02b1
 <400> 527

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 attaacattt ttcaggggaag ttataacaca gatgttcctc cggttagggt aagttaccat 120
 cacggtaacc attataattc agttgttgat cctcgtcggc tgacagttgg ggcaggcctt 180
 ggatttagct cccttagagg gaccaacagt gttgacagag accaagtga ggctgcaata 240
 aaagctcagc aagatcagca gattgagaac gcacttttgg ctgaagggcg actctactct 300
 gatctggagt taactgagaa ggaaatagag cggatggtga tggaggcctc tcgggcagag 360
 tatctgaacc agcagcaagt taacttcaga gagtcatca 399

<210> 528
 <211> 86
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189012f03b1
 <400> 528

gcgcccacgc gtccgcggac gcgtgggcaa gaatagattg gatctatccg gctgcacttt 60
 ataatatctt ttagtatctt tcggat 86

<210> 529
 <211> 428
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012f04b1

<400> 529

gcgcccacgc gtgcgccagc ctctcagtc ctcacagcat cctctcagtc cttagcttgc 60
 ttccctcgcc gccacccacc aaggaaagga ggatgtcttg ctgcggcggc aactgcgggt 120
 gcggcgccgg ctgcaagtgc ggcaacggct gcggcggttg caagatgttc cccgacgtgg 180
 aggccaccgc cggcgccgcc gccatgggtca tgcccaccgc ctcccacaag gggagctccg 240
 gcgggttcga gacggccggg gagaccggcg gctgcgactg caccacctgc aagtgcggca 300
 ccgcgtgcgg ctgtctctgc tgcagctgca actgagccgg cggccaggag gccggccggc 360
 agaggcgagc acgaggatga ggaggacaag caagcaagca ccatcaccac cagttcacca 420
 ccacccag 428

<210> 530
 <211> 387
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012f05b1

<400> 530

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 gcaatcttct ccccgagctg ctagattgga ttgatgattt ggattttaac gtcgggcggg 120
 agagcatgcg ggctgtctga attgcgctgg atgtggaagc tcttgtaact cacatgaaca 180
 tgtagtgga catcttgttt gtagcatgta aatcttaggg atactgttga gcctgtgtag 240
 acacactgta acattaatca tgagcaccaa ttgtcatagt ttttgagcaa ctgggcacac 300
 atcataagcc cttgtactat ttttcacatg taatctgcaa ttgcagtatg ttcactctgc 360
 ttgtactaat aagtgaagaa catttcg 387

<210> 531
 <211> 382

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189012f06b1
 <400> 531
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 ccggaccagc agcgccctcat ctttgccggc aagcagcttg aggacggccg caccctcgct 120
 gactacaaca tgcagaagga gtccaccctg cacctgggtgc tccgcctgcg tgggtgggatg 180
 cagatcttcg tcaagaccct caccggcaag accatcacgc ttgaggttga gtcttcggac 240
 accatcgaca acgtgaaggc gaagatccag gacaaggagg gcatgcccc ggaccagcag 300
 cgccctcatct ttgccggcaa gcagcttgag gacggccgca ccctcgctga ctacaacatg 360
 cagaaggagt ccaccctcca cc 382

<210> 532
 <211> 280
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189012f08b1
 <400> 532
 cccacgcgtc cgatttgtgtt ggccctcgctg aataaaacgt gtcaagcctc cagtcttcag 60
 ggtgttgctg ttgcatcact gtttcgcaat cagatagatc tttttcgta gctttggaga 120
 ccaactgaaa gctcaggtca acgtgtaatc gtactgttaa gtgcttgctg tttgttgga 180
 gttgttgggt ccagatcaga tcgatcggga tcaggagta cagctctgtg cagaagtgg 240
 ttctgacgtg ctaaaaacta tacaagaaag agagctaaat 280

<210> 533
 <211> 202
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189012f12b1
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 gcgcctggcc gcctcggcac gccctgcgcc cgccgtcggg cgcaccacgc tgttcgtctg 120

caaggcgag aagagcgacg aggctgcatc tgacgctgcc gtcgtcacca gccggcgcg 180
cgcgctgtcc ctctcgccg gt 202

<210> 534
<211> 246
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012g01b1

<400> 534

cttgtctcc ccactcagtc ctcggtccc ggtccggttc ggttccgttc ggttcgtag 60
ggttttagtag cggggaagag gaaggcatgg cggacgtcga gtaccgttgc ttcgtgggag 120
gtctcgctg ggccaccgac gaccagtccc tacagaacgc cttttccaag gacggtgacg 180
tcatcgactt caagatcatc actgacaggg agacgggccc ttcccggggg ttcgggttcg 240
tcacct 246

<210> 535
<211> 379
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189012g02b1

<400> 535

gcgcggcggt ggcggcgcg actccggcgg ccagtggagg aactgagcct cgaatctccc 60
agttatcgat ctatctaccg tgcgtcgtc gtcgtcgtc tcttcgtcag caagttatct 120
tcgggtgctg cgtgttctg tgcagtcgt agtcgtcgtg tgtgtggtgt ttttgatcgc 180
gagctcgagt gtcgctctgt cgggggttaa ttagagctgg ttacgcgagg aagaaacaac 240
atgtgttact atctttcagt cggtcggctg gtcggtcagt cggatgatga gcaatcccct 300
tctgtcatgg attgggatgt gatgttgaa tctctatgt ttgaacaagt ttaaattgat 360
taagaaaatg caagtcata 379

<210> 536
<211> 119
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012g03b1

<400> 536

gcctctcaaa gctgcatgtg ctactgtatg ttgatgtaca tagagaagat tacatctaaa 60

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaa 119

<210> 537

<211> 323

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012g05b1

<400> 537

tcttcaccca ggatatgcag ggggaggagg acatggagcg gccactgcc aaggaacggc 60

cgctctatct acccttattg tcggtttcac ttgcctagcc tagtttgaag agtttcccgg 120

gggtggcgag gagtaccggc atacgagtc cctggtgttt tctctacga gctggggagg 180

gcgtgtggtt ctctcctcga ttggaacgaa aagaagaaac tacagcgtca cataactgca 240

gcaaagaagg tactgcatga gatgtaacag ggtcgtatta tggaagaaca gaatccctgc 300

tgttgcacgg agtgagtaca gtt 323

<210> 538

<211> 377

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012g06b1

<400> 538

gcgggccgct ggactcgatg ccgcggggcg acgccgactc gagctgctcg gagcacgtgc 60

tgacggcgct gtgcgagcgg ccggagggtc agagccagcc caagatctcc gagtgggagc 120

gcacgttcgc ctccgccacc ccggggtcga acccgggccgg ctcgatgctc gacccgtcgg 180

ccgggctccc cgccggcgac ccgtcctcc aggacatcct catgtactgg ggcaagccgt 240

tctgagaatc cagctccgtg gctgtacgtg tggtttgga gggaatcgat cggggtgact 300

cgggagagcc gccggaatct atcggcagga gatactcgta gccgttgat ggcagatatt 360

aatagggcac aaggagc 377

<210> 539
 <211> 377
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012g08b1

<400> 539

attggagggt cgattcttgc ctcccttagt accttccaac agatgtggat ctggaagggt 60
 gagtatgatg agtcagggtcc agcgattgtc caccggaagt gcttctaagt tgcgagttgt 120
 ctgggtcttc tgaatctatt ctggctgttc ttttctcaag tccttgccat gtaagctact 180
 atgtttgaga ttgctgggat tctgttgact gtattaccgg attaatttgt tgggtcaaaa 240
 tatgttcagt gggctgctat atttgaccgg tgctgaatca tatgccgcat gttctggttt 300
 tttttttcat gccaaaaagt ttgggtgctag cgtgggggga gtgtcaaact atctaccaga 360
 gtctttgtaa gattttt 377

<210> 540
 <211> 271
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012g09b1

<400> 540

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 tcattggccg tctaataatta ggtgggtgat tagcagtagt cattagtgcc acattactct 120
 tgcttgata atacagtaca gtatatggtg attgtcaccg tgtgggtcaaa ctccatctg 180
 gtttgctggt gtaccgtatg tacgtgttgt agctatgggt attgtatttg tagggcagat 240
 ttcatttggt cattctcagg tgggttttgg t 271

<210> 541
 <211> 413
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012g11b1

<400> 541

ccgagcaatc ctctctccgc gccacgcag caagccctcc actcccgatg gcccgcacga 60
 agcagacggc gaggaagtcc accggcggca aggcgccgcg caagcagctg gccaccaagg 120
 cggctcgcaa gtccgccccg gccaccggcg gcgtgaagaa gccgcaccgc ttccgccccg 180
 gcaccgtcgc gctccgggag atccgcaagt accagaagag caccgagctg ctcatccgca 240
 agctgccctt ccagcgcctg gtgcgggaga tcgcgcagga cttcaagacc gacctccgct 300
 tccagagctc cgccgtctcc gcgctgcagg aggcgcgcca ggcctacctc gtcgggctct 360
 tcgaggacac caacctctgc gccatccacg ccaagcgcgt caccatcatg ccc 413

<210> 542
 <211> 172
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189012g12b1
 <400> 542

ctaataacttg tcgtgtgtag taatatgtca gtgccgtact ctgtgccata ctatgttggt 60
 agagctggat catttgttcg ttggtcgtcc taaatcatcc acctggtggg tgcttatctg 120
 aaccttgcatt tttatgtctg agaattagtg attgtgtgaa ccattattaa ca 172

<210> 543
 <211> 327
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189012h01b1
 <400> 543

gccgcaactg cgtgctgctg ctgaacgcgc cgccaacgc cacgggcctc atcgacggcg 60
 ccgacatggc caggctgcgc gagttcggcg ccgccgtgag gcgcatcttc ggcacggacc 120
 tggccgaggg cagcagggcg cgggccagca gcgagcgcgg cggcggattc gaggcgggga 180
 aggtgctgga cgggcgcgag gagacgtact gggcgccgac ggcggaggac ggggtggcgga 240
 acgggtactg gatcgagctg cggcggcccg cgggggcgcg ggcgttcaac gtggtgcggg 300
 tgcaggagca cgtggcgctg gggcagc 327

<210> 544
 <211> 344
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012h02b1

<400> 544

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 tccagatctt ctccgagggc ggcctcgact acctgggcaa cccaacctg gtgcacgcgc 120
 agagcatcct cgccatctgg gcggtgcagg tgggtgctcat gggcttcacg gagggctacc 180
 gtgttggtgg cggccccctc ggcgagggcc tcgacatcat ctaccagga ggcgcttcg 240
 acccgcttgg cctcgccgac gaccccgaca ccgccgccga gctcaagggtg aaggagctca 300
 agaacggccg cctcgccatg ttctccatgt tcggcttctt cgtg 344

<210> 545
 <211> 322
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012h03b1

<400> 545

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 ggaggccgcc ggccgccgcg cggtccttgg cctcatggcc agcggagtcg tcggcagcgc 180
 gttcgctcag gtggtgcacg ccggcaccgt cgcggccatc aaggttggcc cgccgccgcc 240
 gctcttcggt ggactccccg gaacggacaa ctccgacgag gcaagggact tcgacctgcc 300
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<210> 546
 <211> 263
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012h04b1

<400> 546

gcgcccacgc gtgcggctcc tccttcact cctacttcgc cgtttcggg agattcttgg 60

attggtttttt cggcaaagat ggtttcgccc gtcgtgatcg cgtcggcgagg gctcgggatg 120
 ctggcgaggcg tggcgatggc gagccgggga tcggcgacg ggctgccggc ggcgccagg 180
 tgggacgcgc ggccccgttg ctccacgtgc agcggcaccg gccgggagga gtgcctctgc 240
 agccgttggt ccgacggcga cgt 263

<210> 547
 <211> 385
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012h05b1

<400> 547

ctttaaactg tattcgccat ggtagatggg ttgatgcagc ccacttgaag gagtcttggtg 60
 gttcactaca ttcaacaagg aaaaagcaaa agagtgtagt cttgtgatgc agcccacttg 120
 tttcattttt gtgtgtattt tgaagatggg gtgcaggaag acagtgattt ttgtgtgtat 180
 tttgctcagg gttgacattt tttccgcttt acagattttg gctgccatcc catgggtgca 240
 caggtgcagt gctgtgggga ctggacatgc agtgtgtctg caccgacttg catttcacaa 300
 acaaaactgt ggattttattt ttttaagtccc tcgtcactgt aaattgtgtg tgtttgtatt 360
 gtagattaaa aagaggaaca ttgta 385

<210> 548
 <211> 362
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189012h06b1

<400> 548

gcgtgccgga ggcggccatg tcggggatgc tggcggcggt gcggcggttc aacgaggagc 60
 ccgcggaggc caaggcacc cactacacgc gggacgccg gcggcgctg cgctacaact 120
 gcaacgccga cctcttgagg acgctgctg gcaagtggcg cgacaccatc tacatggagc 180
 acgtggacca gctggcgccg ggcgaggagg aggaggtcct cccgccggcg tgcaggggagc 240
 tcgcaccgaa gtacacggcg cagatgcgga tgctggggcg cgcgctcttc gagctgctgt 300
 cggaggccct gggcgtgagg cgcgggtacc tggaggagga ggccggctgc ctggagacgc 360

<210> 549
 <211> 72
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012h08b1

<400> 549

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 tgcccggcgg cc 72

<210> 550
 <211> 397
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012h09b1

<400> 550

cccacgcgtc cgatttccta ctggatcctt aactcgact accaatatga gagggagcag 60
 cctagtgcag gcgaccatga tattcttcat tggatgcctt gtgctttgtg cacagtgtgc 120
 tgtcgataat aagcaaacga tgggtcaacca agatgatcat gcagcgaaca caaataccaa 180
 cgctaccatc gtcaactcaa catctgtagg cgagagcaag aaaaccgagc tattttgcag 240
 cctctatctc gtatgttatt tcaactttga gctccgtgct aagtgtact gttgccagaa 300
 taagaatggc gaatgttaca agacgaagag tgagtgcctg cagaagtgcc attcctacaa 360
 cggttaatgc ccaccttcat cgggggtctct gggatag 397

<210> 551
 <211> 249
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189012h10b1

<400> 551

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ttcgttgaag tagatcgcat gctattctgg tacaatgggtt attgtctgag cttttaaatt 180
atctgcccgc ctgggagaat cttatgcttg tgagttcttg tcataaagat ggattttact 240
ccttgcggtg 249

<210> 552
<211> 202
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189012h11b1
<400> 552

cccacgcgtc cgcctcatcc tccatgtgga gatggctgca cctaggccta cttagttact 60
tgcctactaa gcatccagat ttcctacaag tgctgtatca ttatggcttc cgaaatacca 120
gtacttttgt gtcgtgagct tgtgtctgtg ttttgccttg ttgagaataa ctacactctg 180
ttggtgaaaa agtgaatttc gt 202

<210> 553
<211> 407
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189012h12b1
<400> 553

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cggggggtgc gcgccgtgc ccggggcgct cgcgctccgtc tacagcgagg tgcagacgag 120
ccgcatcgcg cagcgctgc ccctcccctc cgtcctccgc tcccacttca ccctcgccga 180
cgggcccgcc agcaccgccg tcggaagccc cgatgagatc gccaagctgt tcccctgcct 240
gtacggccag ccgtcggccg ccgtgggtgcc gtccgccgag ccggtcgaga cgaagccgct 300
caagatcggc gtcgtgctct ccggtggcca ggcgccaagc ggccacaatg tgatctgcgg 360
catctttgat tacctgcagg agcgtgccaa aggcagcacc atgtatg 407

<210> 554
<211> 296
<212> DNA
<213> Triticum aestivum

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189013a06b1
 <400> 557
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 ctgactcacg acaggccata tataaagtgc cattgcaggt gtgacaactc tgacattgct 120
 ttgggcattg cttctccatt tatctttctt attagctcct aagaatatgc gtatgaccat 180
 gttcatgtac caacatggct cgagacagca tgctcgatg tgaatgctat cgggggctat 240
 gtatatgcac ggacgcattg cacctgacgc atgttgctga atacgatgat gcggacatac 300
 gcgtcagggt actccttatt gacctccttc acctcggtga tcacc 345

<210> 558
 <211> 364
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189013a09b1
 <400> 558
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 cgctaccgcc gcgccagggc ctgcctcgc cctcactggc caccggcgac ctccaaccct 120
 tgttctccgc ctcgctcgcca tagccacctt gagctcgagc agaggagcgg ctccggcagga 180
 gggggcaaca gccagccgcg cctcgctcgt gtcgcgtggt ggcccagatg cggtcgtccc 240
 gtgctctgcc tccacgagcg cggcctcgat ccaaactcgg caggaggagg ggagcagcag 300
 ctggccatgc tgtgttggcc gtggaggagg aaggagctca tgtggctagg gattggctac 360
 cctc 364

<210> 559
 <211> 337
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189013a10b1
 <400> 559
 gcgtcccag cctgaccag tgccatacag gccactcaac caaaacgagg tcagatttct 60

<210> 562
 <211> 305
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189013b01b1

<400> 562

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 catcgccgcg atgggccgca agctcgcgct cctgggtgggc atcaactacc ccggcaccaa 120
 ggccgagctc aagggatgcc acaacgacgt tgaccgcatg cacaagtgcc tcgtcgaccg 180
 gttcggtctc gacgaggaga acatcacctg cctcctcgac cgcgggtcct ccgggccgca 240
 gccacccggc gccaacatcc gccacgcgtt ggccaagctc gtcggggacg cgcgcgccgg 300
 ggact 305

<210> 563
 <211> 371
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189013b02b1

<400> 563

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 atcgatggct accttcgcga cgtcgacgcc ggccgtgatg gggctctgctc gcacgggccg 120
 ggtggccggg cctcggcggg gcgtgggtggc gcgggcgtcc gcgacgatgg cggcgccggc 180
 ggccgtggcc gcggggagga cgcactacga agtgctcggg gtgggtgccg gggcgagcag 240
 gggcgagatc aaggcggcgt accggcgtct tgccagggag gtgcaccggc acgctgctgg 300
 cggcgccggc gacgaggggt tcattcggct gcacgcggac tacaccacgc tcgtgaccc 360
 cgacgagcgc g 371

<210> 564
 <211> 116
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189013b04b1

<400> 564

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ctggagttaa gttatcgctg ctgtaatttt atcatcaagt ggaattctgt aatttt 116

<210> 565

<211> 364

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013b05b1

<400> 565

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agggcattgt cccaacaatg ggccgtgaga tccccggcaa cgccataatg ttcggcgtgt 180

acgaggccgt caagcagtac atggctgggt gtcgggacac ttcaggcctc ggccagggct 240

ctctcatcct cgccgggggc ctgccggag gagccctgtg gctcacgggtg tacccaaccg 300

acgtcgtgaa gagcgtgac caagtggacg actacaagaa gccgaggtag tcggggtcga 360

tcga 364

<210> 566

<211> 401

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013b06b1

<400> 566

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tgatagtacc aggcgtgaga cgtatctatc ttcggcagag ttcagggaga agtttggcat 120

gacaaaggag gcttttgcaa agctacaaa gtggaagcag aataggctca agatcgctct 180

tcagctcttt taaaatgtta tgctgtcaaa tatgcactag ttatgtcttg cctgttggtg 240

aaagcaagga cgttgagatt ggttttcaaa ggcaaattc aaacacgaag atctctctcg 300

cactcgtcgc aatgttaaga agagacatcg gtaagtgtaa gcctatctgg gtcaagggga 360

ccctcggtag gcgtcggagg ggctggagca gtgagttttg a 401

<210> 567
 <211> 352
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189013b07b1

<400> 567

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 accttgtctc atgggagaag gagaatgtgt ccagtgaggc tcttgaggct gcccgatttg 120
 cttgcaacaa gtacatgacc aagcatgcag gaaaggatgc cttccacctc agggtcaggg 180
 ttcacccgtt ccatgtgctc cgtatcaaca agatgctttc gtgcgctggg gctgataggc 240
 tccagactgg tatgaggggt gctttcggga agccgcaggg agtctgtgcc cgtgttgcca 300
 ttgggcaggt cctcctttct gtgcggtgca agcccaacaa tgccatccat gc 352

<210> 568
 <211> 89
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189013b08b1

<400> 568

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 aatcttatca gttggctctg ttaaattctt 89

<210> 569
 <211> 287
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189013b09b1

<400> 569

gtcaaggatt agcaagcagt aatagtgaag ttgtactgag gagcgagcga aacgatcgaa 60
 ggttcacgac cccttattag ctattaagag agtttgaggc aatgtatgtg atacagattc 120
 agagttgtta tggagatatt aacctgcaat aagctgctat gctgttgtgt actagtgtctg 180
 ccttatgtat accctgtttc ctgtagtgca ctgtaggttt tatctcaact actatgtatg 240

tattcccctc tgaaaatgat gaattctcct gaggatttct ttcatca

287

<210> 570
<211> 278
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013b10b1

<400> 570

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tggcgcccat caggaggcag ctaggctact tcaagcccca gagcagcgcc gagtggcacg 120
ggccgctccc ggtcgcggcc gacacgacgg cgctgccagt cgcgcccgac gccggcccg 180
acgcggagta agcgtccaag ggcgtgctgg tgctcggggc gacggactgg gtggacaact 240
acaacgtccc ggtgcgccacc gacgacgtgg aggccgtg 278

<210> 571
<211> 229
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013b12b1

<400> 571

actaaacaag agcttgagct cgatcgatcg aactcaaaga tgtggaaacc atgtaccgat 60
gaataatact caatcaacct ttgtcttcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagggggg 229

<210> 572
<211> 203
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013c01b1

<400> 572

tcgctctgac attgtttttg ggctttcctt ctccatttat ctttcttatt tgttcctaag 60
aatatgtgta tgtccatgtt catgtacgaa catggctcga gaaagcatgc tcgtatgtga 120

atgctatcgg tggctatgta tatgcacgga cgcataatat tataacaatat ggcgactata 180
tacgtttttaa tggtaaccaa tgg 203

<210> 573
<211> 358
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013c02b1

<400> 573

gcctggccga gcagctagcg aagaagttca agggccagga gtgcaccaac accaccggag 60
ccaacaccgt gcccggcacc gagccgcagt tccccgacta cccccagttc ctgcaccgat 120
gccacctcaa cgcgtcgggtg accgaggacg ggcaggtgat gccggcatgc gtgcccggcc 180
ttgtggccga cattgtgctg accaactaca ccaagtccca gtacaaccgg tttctcaacg 240
acaccaagta ctctggcgtc gggatcgcca acgaaggcga ctgggtggtc gtcgttctta 300
gcaccagcac cgactccggc gactacttcc ctgctcccc aggctccaac tgggcttc 358

<210> 574
<211> 249
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013c04b1

<400> 574

cccacgcgtt cgatcggagc accaggtacc gagggctgtg ggagagccgc tttcgcggca 60
aatacggctc cttcgacgac cagacaactc ttggggccat gcgctataca ttcggaccca 120
tcccagagcta cgccagacct cattggacca tccagatctt gggcatgcgg gtggacaacc 180
tggaagacgg tctgcagcgg ccggtgcatg tccacggctt tgtcgccgtg agggacacct 240
cggatcaca 249

<210> 575
<211> 355
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013c06b1

<400> 575

ggaagaagtc gttctttctg ggggagatgg gaaatggagc aaagatgaaa ctggtggtca 60

acatgatcat gggaagtatg atgaatgctt tttctgaggg actctgtttg gctgacaaaa 120

gtgggttgag cccccagacg cttcttgatg tcctggatct cggtgcaatc gcaaatccga 180

tgttcaagat gaaagggcct tcaatgctgc agggcagcta caatccagca tttccctga 240

aacatcagca gaaggatatg aggctggctc tgtcgttggg agatgaaaat gccgtgtcca 300

tgccagtggc agctgctgcc aatgaggcat tcaagaaagc aagaagcttg ggact 355

<210> 576

<211> 59

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013c07b1

<400> 576

aaattattaa aatattttaa aaaaaaaaaa aaataaaaaa tatatcaaaa aaaaaaaaaa 59

<210> 577

<211> 468

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013c08b1

<400> 577

gcaactacca tttccaccac aacaaccata tccacagccg caaccatttc catcacaaca 60

accatatctg cagctgcaac catttccgca gccgcaacta ccatattcgc agccacaacc 120

atttcgacca caacaaccat atccacaacc gcaaccacaa tattcgcaac cacaacatcc 180

aatttcacag cagcagcagc agcaacaaca acaacaaca caacaagaac aacaaatact 240

tcaacaaatt ttgcaacaac aactgattcc atgcatggat gttgtattgc agcaacacaa 300

catagcgcac ggaagatcac aagttttgca acaaagtact taccagctgt tgcaagaatt 360

gtgttgctcag cacctatggc agatccctga gcagtcgcag tgccaggcca tccacaatgt 420

tgttcatgct attattctgc gtcaacaaca aaaacaaca caacaacc 468

<210> 578
 <211> 359
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189013c09b1

<400> 578

caaagctgaa ggtgtgaggc aaatgttctt ccctgctacc gtccccgcgt attaccgtgc 60
 acctcctgaa gcggagttct gatctatgaa ggtgcagcta atctctcgca cgatgacatt 120
 tttcctgtgt tggtagttgt tgaaaatgtg ctgtgttggt agtccgaatg gatcgaggaa 180
 cgtgtatagt atctccgttg ggtgctgata ctgcttttgg aatgttctga attgctgcat 240
 cggtgccccat gttgattcgt cctagctaaa ttgtacatct ttgttgtgct actaatgaat 300
 tgcgcctgct gttctaacta gtggaccaag gtggtgttcc ttgtctactg atcgtgagc 359

<210> 579
 <211> 94
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189013c12b1

<400> 579

cccacgcgtc cgccggacta tttaaactct gaactatgct gtgatgggtg aactgatgtt 60
 ggattgttaa gggttatgtt ggaggccact ttat 94

<210> 580
 <211> 360
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189013d02b1

<400> 580

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 ggcggcgcgg cgcccccg ggactacgtc tacttcaagt ccgtcgtgcc gctccacaag 120
 atctctcttg caggtgccga tgagtccgtg cagatgatgc aaccaagctc aggaggagct 180
 cgttgaagat cttatccttt gtgttgtttc gttctagttg atcagtagtg gagcccagtt 240
 ggggtcaatc ggggaccgtg tcacatttgg gttcttcttt tattttgggt tccgtagtca 300

gaccttgatt gtatctagat gatgtaatgc tttattcatg taattgtgtg aagtgccttg 360

<210> 581
<211> 373
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013d04b1

<400> 581

cttttcccca agtccccaag gagagaaacg agaaaggctc accgtggaac cgatcgaatc 60
gcagcgaagc agcggcgggc gcggcgatgg ggatcggcga gcactttgag ggcgtgaagc 120
agcactgggc gcgcaacttc gccttccctc actacttcaa gaaggtctac ggccgcgacc 180
agccccctcc caagtgggtc gacgccgacg tcgaagagtt catcgctcc gaccccgctc 240
acggcccgcga gctcaaggcc ctgagggagt ccaggaagtt cgcgctcggc gggggccctg 300
ccggcgccgc gcacctcggc ggcgttgcc tcaagtactc caagagcccg cacggtgtcg 360
tgctggcgac cgg 373

<210> 582
<211> 127
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013d05b1

<400> 582

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ctgcctgctg aatccatgag caggcaagag acaacctggc gaactgaaac atcttagtag 120
ccagagg 127

<210> 583
<211> 400
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013d06b1

<400> 583

gcagcgcgtc cttgacgatg gccatggaca cgttctacat ctcccacggc tcgcccacgc 60

tctccatcga cgactcgctg ccagcgcgcc acttcctcaa gtcgtgggag ccggccggtc 120
 tcgccggccc gcagccgcct cgcgccatcc tgatcgtgtc cggccactgg gagacggaca 180
 ccccggctgt caacgtcatc cgtggcacca acgacacat ctacgacttc tatggcttcc 240
 ccgaccggat gtacaagctg gtgtaccctg cgccggggcg gccggacgtg gccatgagga 300
 ccaagaagct cctggaggac gccgggttcg ggccggtgag cgaggaccac ggtcgcgggc 360
 tcgaccacgg cgctgggtg ccgctgatgc tcatgtaccc 400

<210> 584
 <211> 62
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189013d07b1
 <400> 584

aaaattatat aaattataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaattaaaaa 60
 aa 62

<210> 585
 <211> 391
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189013d09b1
 <400> 585

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 ccccgatccc ggcgagcgag atggccaacc cgagggtggt ttctgacatg accgtcggcg 120
 gcgcgccggc cgggcgcata gtgatggagc tgtacaagga cgcggtgccg cggacggtgg 180
 agaacttccg cgcgtgtgac accggcgaga agggcgctcg caagagcggc aagccgctgc 240
 actacaaggg cagcgccttc caccgcgtga tccccgactt catgtgccag ggcggcgact 300
 tcacccgggg caacggcacc ggcggcgagt ccatctacgg cgagaagttc gccgacgaga 360
 agttcgttca caagcacacc aagcccggga t 391

<210> 586
 <211> 337

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189013d10b1
 <400> 586
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 agcgccagct gccgaccacc accgttgccg ccgcgccctc gtcgtcgtca gccaccgcgg 180
 tcccgcggga cgcgcccag gaggccctgg acgcatccac cggggagtcg aggcggacgc 240
 tgcggtctga catcgtgttc tactcgatgt acgggcacgt ggaggcgctg gcgcgtcacg 300
 cggcagcggg agcgggtgcg gtgcaagggg tggaggt 337

<210> 587
 <211> 212
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189013d11b1
 <400> 587
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 cagcaaatgg ctaccatcag cgccgccgcg gcgaccaccg tcgtcgcccc tgccgccatc 120
 gccaggccgc aggccctagg tctgccccag ctgaggacga ggagcgagag ggtgaggtgc 180
 agctactcca aggacgcaa ggaggcgacc cc 212

<210> 588
 <211> 189
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189013d12b1
 <400> 588
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 gggacctctg gcttgatgtg tcttgccgat taatccatag attattctgt acgatgcaaa 120
 tcagcctacg gcttactgta agttgcagtt taggctttct ctctactgca aattttactt 180
 tgaaagatc 189

<210> 589
 <211> 399
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189013e01b1

 <400> 589

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 aacggcgcta gcctcggcag cgtcagcaac ggtggaagga tcaggtgcat gcaggtgtgg 180
 cccatcgagg gcatcaagaa gttcgagacc ctgtcctact tgccaccgct cagcacggag 240
 gccctcctta agcaggtcga ctacctgac cgctccaagt ggggtgccttg cctcgagtcc 300
 agcaagggtg ggttcattct ccgtgagcac aacgcattcc ctgggtacta cgatggccgg 360
 tactggacaa tgtggaagct gcctatgttc ggatgcacc 399

<210> 590
 <211> 318
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189013e02b1

 <400> 590

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 agggccccgc ccggttcagg tcgctcgact tcggcgagcg caacgggtac ctcaagggcg 180
 tcgtcaccga tgtcatccac gaccgggggc gtggtgcgcc gctggccaag gtgacctttc 240
 gccaccggtt caggtacaag caccagaagg agctcttcgt cgccgccgag ggtatgtaca 300
 ccggccagtt cgtctact 318

<210> 591
 <211> 278
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189013e03b1

<400> 591

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ggcgctgaac ccggacgcgc ccattgttcac cccggcggcg ttcaagaagg tggaggacta 180

ctcgccccgag tgggtgggagc tcgtcaagac caccgcctgg ttccgcgacc actggttccg 240

ccagcaccaa ctctacgagg acctcgccga caacgtgg 278

<210> 592

<211> 296

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013e04b1

<400> 592

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ggggctccca gacggtagaa ttttgtaccc aagtcggaca atctgtcaaa cttggcatga 120

aagattagga cacaatgctt gggctttgtg tcgctcggca acgtttttgt actttatgtt 180

gctcgagttt tgaaccacac cagttacgga atacggcaga ataactctgac atttctacag 240

agggtgtttgt atttgcgagt tatactatgc aattacgttt tgtgtgctgt gtgtaa 296

<210> 593

<211> 367

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013e06b1

<400> 593

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atgttgggga gtacattgtg cccgttccac atgtcaagca agtgaagctc tcaagtgtcg 120

gaggaaggct gataatggca tctgatggca tatgggatgc gctatccaat gaggcagcgg 180

ccaagtcatg ccgaggattg cccgcagaac tcgctgcaaa gcttgtgggt aagcaagctc 240

tgaaaaaatg tgggctgaaa gatgatacca cctgtgtggt gggtgacatc atcccatctg 300

atcatcatctt gacatcgcca cagttatccc caaagagaaa tcagaacaag ctcaagtctc 360

ttctttt

367

<210> 594
<211> 445
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013e07b1

<400> 594

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tttttgaaaa aagcttctgt attgaagttt gaagataatg agaagcagaa gaggtatgag 180
atgatctctt ttagagaaat acaagatgaa gttaaagaac ttaaggatct ctccgatctt 240
ttgcatgctc ctgttggtgt tgcacacaat gacttgctat cgggtaatct gatgctgaat 300
gatttggaag agaagctata ttccattgat ttgagtatg ggtcatatag ctaccgtggc 360
tttgacatcg cgaatcattt caatgagtac gcaggctttg agtgtgacta caacttgtac 420
ccagataaag atgtacaata ccatt 445

<210> 595
<211> 351
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013e08b1

<400> 595

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ccgccgctcc aacggcgcta gcctcggcag cgtcagcaac ggtggaagga tcaggtgcat 180
gcaggtgtgg cccatcgagg gcattaagaa gttcgagacc ctgtcctacc tgccaccgct 240
cagcacggag gccctcctca agcaggtcga ctacctgatc cgctccaagt ggggtgccttg 300
cctctagttc agcaagggtg gggttatctt ccgtgagcac aacgcatccc c 351

<210> 596
<211> 402

<400> 598

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tctctcgcgc gcttccgagc tttggcctcc gtccctccct cctccccga tctctccacc 120
agcgcagcgt agcgcgggt tccgccgctc cgacccgccg ccatgaggga gtgcatctcg 180
atccacatcg gccaggccgg tatccaggtc gggaacgcgt gctgggagct ctactgcctc 240
gagcatggca ttcagcctga tggacagatg cccggtgaca agaccgttg gggagtgat 300
gatgctttca acaccttctt cagtgaact ggtgctggga agcatgtccc ccgcgcggtc 360
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<210> 599

<211> 379

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013f07b1

<400> 599

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tccaagatcg ctgatgcctc tggcatggag tggttctcca tcatcaccac cccaacccg 180
atcttcagcc accttgctgg gaagacctcg gtgtggaagg ccatctcgcc ggaggtgctg 240
gaggcgtcgt tcaacaccac gccggagatg gagaagctct tccgggtcaa gaggctggac 300
tccgagattt tcttcgcccc caactagagc cattcgtcgc gcatcggccg gtcgccttag 360
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<210> 600

<211> 394

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013f08b1

<400> 600

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agaggaaacc agtctcctac atgtacgccg acgacttcat gacatctgac gccagcgact 180
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tatcgatatca tgtagtacta gaaagggtgcg ttagttgcgc caagtcattct gcgcgtctcg 300
gtttttgttg tacataggta ggctccggaa gctttattat tagtccatgt gttccacgtc 360
ggtggtagtg acaaattgtg aacatgacca tgta 394

<210> 601
<211> 144
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189013f10b1
<400> 601

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taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aatataatat 120
aggaaattat ttttttttgg gggg 144

<210> 602
<211> 391
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189013f11b1
<400> 602

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gcggcgcgcg cggcgacggg gtttggcgcg cgggtggaagg ccatcgccggc gaggctcgag 180
agggtgccgc cgtgcctgtc cgacctgtcc agccaccct gcttctccaa gaacgcgctc 240
tgccgggagc tgttgcagtc cgttgctgcc accctcgccg aggcgcgccga gctcggcggtg 300
ctctgccgcg agccgccccaa ggctggcaag ctgcagatgc agagcgacct ggacgctctc 360
gccgggaagc tggaccttaa cctccgggac t 391

<210> 603
<211> 331

<210> 608
 <211> 407
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189013g06b1

<400> 608

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 ccgggagtg ggccgcacct ggccttctc cgccggcttc gccgtcacgg gggccctcat 180
 caccaagatg accgccgggt tcaccgagga ggacctcaag aactccaagt tcatccaggc 240
 gcacaagaag aagtagtcgc cgcccgcccg gccgtccgc cgccagggtca caggggcagc 300
 agctgagtaa ccagcatgtg tccttgatgc ggggagccag tcctcaccct cactattgtg 360
 attgagcttt tatgtttttt ttttcaaata caactgcatg cattttt 407

<210> 609
 <211> 376
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189013g08b1

<400> 609

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 gcggtggatg caacatgtac ccggaggccg aggccggcgg ggccaccctc cttgtctgcg 180
 ccaccgacac ccacaaggcg agtccccgcg ggatggagat ggcggacgaa aacggcggat 240
 gcggctgcaa ccagtgaag tgcggcacca gctgaggctg ctctgctgc agctgctaga 300
 tcatcgatca tcgaccatgc atgcaccgtg ccgggcgtgc atcatcgagc atatcgatct 360
 actactacca taccat 376

<210> 610
 <211> 325
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189013g09b1

<400> 610

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gccgcaccaa gctcgggttc tagatccggc ccggccgacc gccgcgtggg ggagccatgg 120
ctcaagagtt atctgcattt tgttttatgg acgtttcagt gtttgttatg caagctagga 180
agtgatccca ggatgtctct gttatcaatt tcttcgtggt atgaggattg cttgtaccct 240
gggtgtactga tgttaccgtg ctgtgccaaag taaagaacct ttgctataat gtcacccttg 300
tttaaaaaaa aaaaaaaaaa taaaa 325

<210> 611

<211> 201

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189013g10b1

<400> 611

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atgggtacgt ttgtaggttt tgtcccgctc ctcaaccgtt cccagatgca atgggttcga 120
gagaagtgag aatatttcaa cccgaacac atgtcctggt taatttacag cccctcact 180
tgatctaaag gtggttggtg c 201

<210> 612

<211> 373

<212> DNA

<213> Triticum aestivum

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<400> 612

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cgtgggcatc aacaagggcc acgtcgtcac caagcgcgag ctgccgccac gcccgctccga 120
ccgcaagggg aaaggtacca agaggggtgca ttttgtcagg aacttgatta gggaggttgc 180
tggttcgct ccctatgaga aacgtatcac tgagcttctt aaggttggaaggaggagagc 240
cgactcaag gtcgccaaga gaaagcttgg tactcacaag agagctaaga agaagagaga 300

<400> 615
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 ttggcttcgt cttccgtgag cacaacagct cccccggcta ctacgacggt cgatactgga 180
 caatgtggaa gctgcctatg ttcgggtgca ccgacgcaac gcaggtgctc aacgaggtgg 240
 aggaggtcaa gaaggagtac cctgacgcct atgtccgtgt catcggttc gacaacatgc 300
 gccaggtgca gtgcgtcagc ttcattgcct tcaggccacc aggtgctgag gaatctggca 360
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 cagct 425

<210> 616
 <211> 412
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189013h08b1

<400> 616
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 cctccgcccgc caccgcccgc gcggcgctcc ccagtaatgg gctgggcggc gcccgagagg 120
 cccatctggt tccccgggag caccctccc ccgtggctcg acggcagcct tccccgagac 180
 ttcggctttg acccctgggg tcttgatcc gaccggaga gcttgcggtg gaacgtgcag 240
 gcggagctgg tgactgccg gtggcgatg ctgggcgcgg cgggcattt catccggag 300
 ctgctgacca agatcggcat cctcaacaca ccgtcgtgt acaccgcccg ggagcaggag 360
 tacttcaccg acaccaccac cctcttcacg gtggagctca tcctcatcgg ct 412

<210> 617
 <211> 267
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189013h09b1
 <400> 617

<210> 620
 <211> 353
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189013h12b1

 <400> 620

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 tcatccgata ccaaattccg aacccacacc gtcccaatcg tccgcgccga ccccgatgat 120
 ccctaagata aagacaatcc ccggcccggc cagccccgcg cgccgcccc tctcgcccg 180
 gcgaagatgc acctgtggcc gtcgctcgg atccgggact cgttcaagca cgcctacctg 240
 gagaagcttg agttcaacct cgcccacaag aagcgcgcgc aggggcagg gcaagggcg 300
 cagggccagg acggggacga ggcgcctctg ctcgagggcc gctcgctcgc gat 353

<210> 621
 <211> 130
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsflw189001a03b1

 <400> 621

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 catgcgacca ccgagaggcg gcggaggttt ccgcggacgc ggccggcgacc gaggtggccg 120
 cttcggtgga 130

<210> 622
 <211> 410
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsflw189001a04b1

 <400> 622

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 aaagcaggct gactacttga tccgctccaa gtgggtaccc tgccctcagt tcagcaaggt 120
 tggctttgtc ttccgtgagc acaacagctc ccccggttac tacgacggct gatactggac 180

aatgtggaag ctgcctatgt tcgggtgcac cgacgccaca caggtgctca acgaggtgga 240
ggaggttaag aaggagtacc ctgacgccta tgtccgcgtc atcggcttcg acaacatgcg 300
ccaagtgcaa tgcgtcagct tcattgcctt caggccacca ggttgcgagg aatctggcaa 360
ggcctaaagt gcaagttgaa ataactgata tacatgtcat gttagttcac 410

<210> 623
<211> 252
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001a06b1

<400> 623

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attcaaacc caactgtctg gccgtcctgc ctcacgcctt gcataatctg tagcaggatt 120
gggaagtgta tagtggagca agttgggtgt cgacgtgtgt gtgaaggatga gagacttttt 180
atgtgaagaa atgtaatgct tgccagatgt tgtaaaactt caaactga aatgaagggg 240
ttgaatttag ca 252

<210> 624
<211> 500
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001a07b1

<400> 624

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gtggccgccg catgcccgcg ctgcttctc tacgtgctca tcgcccggag cgacccccgc 120
tgcccgcgct gcgagtcgca cgtgccgcca cccccggccc cggcgcccaa gaagaagccg 180
cggatcgacc tcaacgtcgg ctctctcgga acctagccat gccaagccaa gaagaagtag 240
gtcaagatgg ttgtcgtccg tcctcgtcct cgtcctcgtc ctcggcgcggt taggtaggca 300
gcaggcctcc ggtgctcgga ttggccacga cgacgccatt gtttttctga tgccaccgac 360
ggattccggt acatagggga ggcgctccag atttttgctt gtccatttcc aagtatggcc 420
ggccgtccgt ccgtccgtcc ccgattctgt catgtcagat caatcaaaca ctcgacagaa 480

catgaatgaa tgaaactact

500

<210> 625
<211> 200
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001a09b1

<400> 625

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tttttctgtt tcctcttatt atggctgtga ttgattaatg gacaagtaat gttcagttgt 120
cacagagtac tagcttatac gggagcaacg tttgccctag ttttgtaata atggtatata 180
tcaactcttg acgttctgtc 200

<210> 626
<211> 319
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001a10b1

<400> 626

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attatatatg gcatgttcaa tgcgtttgct ttttagcaat ccctataaca tgtcttatta 120
gtccaacaat attgttttgc gattgagatt aaatttttct cgcataacaa tattgatttg 180
cgattgagaa aaaataatgt tttcctctca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaac aaaaagggg 319

<210> 627
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001a11b1

<400> 627

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gagaacatca acaacaagct gcagctggtg atgaagagcg gcaagtacac gctcggctac 120
aagaccgtcc tcaagacgct ccgcagctcc aaggggaagc tgataatcct cgcaaacaac 180
tgccctcccc ttaggaagtc agagattgag tactacgcta tgttggcgaa aattagcgtg 240
caccatttcc atggaaacaa tgttgatctt ggaactgcct gcggcaagta ctaccgggtg 300
tgctgcctca gcatcctcga ccctggtgac tcggacatca tcagcaccac caccaccacc 360
cagtgaagag aagagaagag agctctccac ctattttatt tagtcgagtt gtaggggt 417

<210> 628
<211> 487
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsflw189001a12b1
<400> 628

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caggactttc tagagggcga ggatggtgag ctttcatggt ttaatgctgg cgtgcggggt 180
ggagtcggga ttggcctcgg catatgcgtg ggcgtcgggt tgggtgtcgg cctgctggtc 240
cggacatacc aaggcaccag caggaacttc aggcggcgac tgccctgatg gccaacgctt 300
cccacaagta tataggaaac tgactgcca tcttcctgcc catgctagtg atagatgagc 360
gaggccttgt gttctccct cctgcagctt gtgtgactg cgaaccattt ttgtcccttt 420
gaggtatgta aatgcgagta tgtatatgta tagtaaaaaa ataaataaag agtcgagtcg 480
ggtcgag 487

<210> 629
<211> 189
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsflw189001b02b1
<400> 629

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ggagccggac aagaagacgc tcgagaagat tggggcgatc ccggccgtcg aggagtttgt 120

gttcctcgag ctatgatgga cagacagcgg gcgctcgctc cactcatcgc tagaataagt 180
gatcatccc 189

<210> 630
<211> 88
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001b03b1

<400> 630

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atacaagggtg ctggcatttt gacgttgc 88

<210> 631
<211> 503
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001b05b1

<400> 631

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gcgcgcgtcc ctgggcaaga aggccgccag cgcggccgtg gccatggcgg ccagcgcgat 180
gctgctggga gtgggcgggt cggcgatggc gcaggacgtg ctcttgggcg ccaacggcgg 240
cgtgctgggt ttcgagccca acgacttcag cgtcaaggcc ggggagacca tcaccttcaa 300
gaacaacgcc gggttcccg cacaacgtgggt gttcgacgag gacgcggtgc cctccggcgt 360
ggacgtctcc aagatctccc aggaggagta cctcaacgcc cccggcgaga ccttctccgt 420
caccctcacc gtccccggca cctacggctt ctactgcgag cccacgcgg gggccggcat 480
ggtcgggaag gtcaccgtca act 503

<210> 632
<211> 436
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001b07b1

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<400> 632

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caccaagcct gacggcctgc tcacgcccac agtcaatggc ttccggcgtg tcatggagac 180
catctacatc gtccctcttc ttgtctacgc ggccgatcat gccaaaaggg ttaaaaccac 240
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cgccattcgt gggcttgaca tgaaaatcgt ggtcattgga ttgatatgtg cttgccttag 360
cgtgttcattg tatgggtccc cactcgctgc cgtgagaagg gtgatgcct cgaggagcgt 420
ggagtacatg cccttc 436

<210> 633

<211> 334

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001b08b1

<400> 633

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gcagcggctt ggggtctatg ggcgtaggcc cgggcaaagt aaccgtctct ccagccaagt 120
gaccatgacg gcatgtactc gcatgaaacg caaaggggcg tcgcatgcct cgacgggaat 180
aatatgtagc tcaaggacgg tccgatatat acaaaccctc ccgtgccctc ccttcctcaa 240
gacctataag aagcggggaa ccttgccgca atggggcacg tgaaatgggg tagaaacgac 300
atatgtatgt gtagatattt atgcatatac ccac 334

<210> 634

<211> 236

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001b09b1

<400> 634

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tccctccctt ctcccttggt caaattaaca gacgctttct gagctgtgtt aaaaaaaaaa 120

atcttcaggt gtgggagaag agtgggtaca acaccgttga gtgggttcgc tacatcacia 300
 gggctggatc atatgaaatc aggtgttagt gaccaagaaa aatggcgtgg gctcattatt 360
 tcgtggattt gcagagctct ttttgtactc atcatgattg atcagatggc acgtaaatta 420
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<210> 640
 <211> 182
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189001c07b1

<400> 640

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 tatacatata cacatatatt atatgcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaggggggggc 180
 cg 182

<210> 641
 <211> 386
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189001c09b1

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 agcaactatt ccgccggcga tgtacagttc tacttctacc tgctgtgagg tgcatagtct 180
 ttggggtagt tctgggaaaa aaactcccc ttgtacatag taggggtggg aagacagcgg 240
 aggaaaaatat gtattgttgt agtcagggtgt atcggtaaag aattccagat gtagccgtca 300
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<210> 642
 <211> 440
 <212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsflw189001c10b1

<400> 642

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gaaggtgctc cgggacaaca tccagggcat caccaagccg gcgatccgga ggctggccag  180
gaggggcggt gtgaagcgca tctcggggct catctacgag gagacccgcg gcgtcctcaa  240
gatcttcctc gagaacgtca tccgcgacgc cgtcacctac accgagcacg cccgccgcaa  300
gaccgtcacc gccatggacg tcgtgtacgc cctcaagcgc cagggccgca ccctctacgg  360
cttcggcggc tgagcgccat cagcgcgctg ccgctggctg aactgtctgt ttctgcttt  420
gctctgtagt cttactcccc                                     440
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<210> 643

<211> 483

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsflw189001c11b1

<400> 643

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ggggcagcgt gacgaccacc agcaaggggc tcaagaagaa ggcgctcaag gcgctgccga  120
agctggcgta cgcgacgcgc gtggccgcgg ctgcggcggc gaggggccc gccgtcgcgc  180
gggtgcgcgcg ctcccgccgc aacgccaacg cccacgccaa ccaatcctcg ccgtccggca  240
gcccggccca cgccctggcg gccttcggcg ggggcgggcg tgggcataac catggtacta  300
caactactac cgcagtgaag tttttcttct caagaaatgg aaaggagaat aattagagct  360
gtgaatgtga ctcttttctg caaccttttt cgccctgcac ttgcgctact gctccagtac  420
gtgtggatgt ggggaacatg acatcagatt tgtaaagagc gtgcgtggtc tcgtgtaaaa  480
ata                                                         483
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<210> 644

<211> 177

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsflw189001c12b1

<400> 644

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gacacgccat cgccgtcgcc gtccgtctcg ccggcgccgt cggcggtggc gggccggcag 120
acgcgcgcgg ccgagtcggt gcggtttgag caccagctgg cgcgtgcgcc cctggag 177

<210> 645

<211> 325

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsflw189001d04b1

<400> 645

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agctagtctt atctcgatgt tagcagctag tttagccttg aaaactgaca gcacttggtta 180
ctactgttaa gtccagtga tgaacatatt gtcgctctt cctttcttct cagggatgtt 240
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<210> 646

<211> 72

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsflw189001d05b1

<400> 646

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aagagaaggt at 72

<210> 647

<211> 399

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsflw189001d06b1

<400> 647

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 agtcgtcggg agcgcgttcg ctcaggtggg gcacgccggc accgtcgcgg ccatcaaggt 120
 tggccccccg ccgccgtctc ccggtggact ccctggaacg gacaactcgg acgaggcaag 180
 ggacttcgac ctgccccga agaaccgggt ctacctgcag ccgctgccac cggcggaggc 240
 ggtggtgcgg gccaaaggagt cgggtccagga catgctcaac ctcaagccgc tcatggacaa 300
 gaagcaatgg ccgtacgtta tgaacgacct ccgtctcagg gcctcctacc tgcgctacga 360
 cctcaagacc gtcattctct gcaagaccac caaggagga 399

<210> 648

<211> 479

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001d07b1

<400> 648

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 ttgggttttt tgatgacaag ctggggggcac tttgcatgca atggttggaa gataagggtt 120
 tctcgatcag agaagctgcc gcaaacaact tgaagcgctt ggccggaggag tttggtccag 180
 agtgggcaat gcaacatata attcctcagg tggttgagaa gataaacaac ccacattatc 240
 tgtatcgcat gaccatcctg caagctatct cattgctagc ccctgtcatg ggtgcagaaa 300
 taacatgccaa aaagctgctc cctgttgtca ttaattcctc gaaggacaga gtgccgaaca 360
 tcaaattcaa tggtgcgaaa gttctgcagt cgcttgtagc aatccttgat caatctgtcg 420
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<210> 649

<211> 455

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001d08b1

<400> 649

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gaccggagaa gcctcccgta cgccagctcc tccgtgagaa gcgattcggg aagaaggaag 120
cccgcgcct cctccccga ctacagccgc cgctctccgc agcccacccc gcccggtcgc 180
ctgtcgaaga aggaatcatg ggatctcatt caggattcgg agtttgagat actcgacagc 240
tagcaataat aagagatcgt ggttgatctc catggcttcg ttaattttct tcattgccct 300
actacccttc acctggtttg taaatggcgg ccttacaggt ggtgccagtg atggttgaa 360
aagatcttgt cagtcagtca gtaataatat cgtgtgcata tatatgtcct ctcacccac 420
ttgctgtaac ataaggaatt tgtcatggat ctggc 455

<210> 650
<211> 303
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsflw189001d09b1
<400> 650

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggggg 180
gggccctttt aggggaccaa agtttctctc ccggggctgg gaaggtaaaa tttttttttt 240
ggggcccca aaataaaata aaggggccgg gttttaaaaa cggggggagg ggaaaacccc 300
ggg 303

<210> 651
<211> 413
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsflw189001d11b1
<400> 651

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agcaaccgag agtactcatc caaagtactc gcaagcacgg atctatacta catatgcac 120
ggtatcaatg aaaaggggtg tatctgtgga ctggactgca gaatgccaca tgagaagggg 180

tttgacgcgt gggctgacgc gtgggtggta ctacaactac tacgacgaca ggcgcgtcgg 60
 ggggcagcgt gacgaccacc agcagggggc tcaagaagaa ggcgctcaag gcgctgccga 120
 agctggcgta cgcggacgcg gtggccgcgg gtgcggcggt gaggggcgcc gccggcgcg 180
 ggtgcgcgcg cttccgccac aacgccaaacg cccacgccaa ccaatcctcg acgtgcggca 240
 gcccgccca cgccctggcg gccttcggcg ggggcggagg agggcataac catggtgcta 300
 caactactac cgcagtgaag tttttcttct caagaaatgg aaaggagaat aattagagct 360
 gtgaatgtga ctcttatgtg caaccttt 388

<210> 655
 <211> 351
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189001e08b1
 <400> 655

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 gcgcgtcagc agccggtaaa agcgcggcga taccagaaag aaataaagcg cgcgcgcggt 120
 gcggcaaacc actcttgagc tggcatggca tggcaacctt tgctctgttc tgccccgctc 180
 atacagagaa atggtggcct ggtgagtggg ttagccacta cccacttgct gagcgatgct 240
 gtgtaccaat aaatctgaat gaaatgtatg ttgtgcctgc acgtagaagt atccgcagca 300
 actatttgta tgctgcgtac taactaataa atattaacag actatgttgt a 351

<210> 656
 <211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189001e09b1
 <400> 656

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 gcatgatcca ggcggtgccc gggatgaagg cgctcgacat gaacacggcc gaggatgcc 120
 tcgtgcgcct caccggggag gtggtccccg gcatgattgt caccggcatg gaggtcgccg 180
 agatcgacgg cgcgccgaga atgggcccga ccttcggcgc catgatgatc tccggccaga 240

aggcggcgca cctggcgctc aaggccctcg gccggccgaa cggcatcgac gggacgctca 300
 agaacgtgac cccggcgctg caccgggaga tgatcctggc ggcgaccaac aacggcgaca 360
 tcgtggacgc ctaagcaaag caatgaacca cggacaccaa ggcgtacgta cgctggtg 418

<210> 657
 <211> 398
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189001e10b1
 <400> 657

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 gtcaaaagat cattcgcagc aggaagtggg gctttaccaa gttcaacaag gccgattaca 120
 tcaagtacaa gagtgagggga agaatcgtgc ctgatggtgt caatgctaag ttgcttggtg 180
 tccatggccc cattgctaaa cgtgcccctg ggcaggcgat cctggcttga ggcagttgaa 240
 gcatgcacag accatttcct tcactagatg gaactcatga gttctgtttt tgcttttagct 300
 agtataattc cccatgcttg aacgagtgtt aagtaaagct ggctgctggc tgcagtataa 360
 tctacttctg tagttcttta ctgtagaccg tttctcat 398

<210> 658
 <211> 75
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189001e11b1
 <400> 658

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 gctatttcgg gacct 75

<210> 659
 <211> 72
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189001e12b1
 <400> 659

atcgcgcagg ctatatatgc agctgatcac

390

<210> 665
<211> 245
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001f10b1

<400> 665

tccacgcgtc cgccagcaac aatatgcaca attaactcta aagcgtaggt atctagcagg 60
at ttgttttct aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaagggg gggccgttta aaagaaacaa acttaattgc 240
ccggg 245

<210> 666
<211> 167
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001f11b1

<400> 666

ggaggaactt taggacatac ttggggaaat gcacctggtg caccagctaa tcgagtggct 60
ttagaagctt gtggacaagc tagacacaaa gggcgcgatc ttgttcgcga aggtaatgaa 120
attatgcgag cagcttgcaa atggagtcct gaactagcct gagcttg 167

<210> 667
<211> 170
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189001f12b1

<400> 667

gttggttgtt cttaggtgtg tttgatatgg tagatgtaca tatatgtata ctatcacaga 60
tggggaatgg tagcgagact ggtgttgata ttcgtcgtcc tgtaataacc ttcagaatgc 120
ttgctgctcc tgacggcctt cttcaatgtc actgtgcttg tttttgcttg 170

<210> 668
 <211> 194
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189001g03b1

<400> 668

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 cgcgcgaccg gaggggatgc ggcagcagcg gggcgctggc aggggcgggg gccggctgga 120
 tcccggctctg ctgaccaggg tgggtggacaa ggtcttcgcg ttcgctcgcc tcgccgagtt 180
 cgagatcctc ttg 194

<210> 669
 <211> 411
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189001g05b1

<400> 669

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 aatgaacgac cttgctgctt catccaaacc ccgggacaac agggacgtgg ccaactgcgt 120
 ggagtgtctac gccaatgagc acaaggtcac ggaggaggtc gcatttgctg ccatcgactc 180
 gatgatagaa gatgagtgga agaccatcaa ccaagctcga ttcaaactg gtcgtgagct 240
 gctgcctgcy gtgcaacggt tcatcaactt cactctcagc gggccgggtgt actacggtga 300
 taggaaagat gctttcacct tcagctcgta tcttgaagac atcatcaaga gcctctttgt 360
 caatcccatc cccatctagc aactactctg tgtacctcat gcaggcatgc a 411

<210> 670
 <211> 449
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189001g06b1

<400> 670

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 ggagtaccct gacgcctatg tccgcatcat cggattcgac aacatgcgtc aggtgcaatg 180
 cgtcagcttc atcgccttca agccaccagg ctgtgaggag tccggcaagg cctaaacaag 240
 ctaactaccc ttcatcatac aacatggttt cgtgtcaggt tgattttatt tccctttttt 300
 acttttgttc tgcttgtgta tgtgttctcc ccctgcaact cgagttaaca ttatatgagt 360
 actacaaatc ataagagtac tacaactatc gttgggtgag aaatatgtga atgtaactac 420
 ggctatgcat aaagtaaata tataactccc 449

<210> 671
 <211> 364
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189001g07b1
 <400> 671

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 tggtcggcca ggtcaagtgc accgactgca ccaggaagaa cttgaaggcc gaggaagcct 120
 tcaaggggtg cgatcaagtg caagaacgtc caccgcgact acgagagcat ggcggtgggt 180
 gccctggaca gcaccggcgc cttcagcgtg cccctggccg ccgacctcca tggcgccgac 240
 tgctctcgc agttccacag cgctgcctcc aacgcgccgt gctccggtca ggagccatcc 300
 aagatcgtgc cgggtgtccga gggcaccacc ttcggcatca tggccggcgc caaactgcc 360
 acgc 364

<210> 672
 <211> 440
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189001g09b1
 <400> 672

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 ctctccagt cccccaactc gttcttcatg gacgtcaagt gccagggctg cttcaacatc 180

actactgtgt tcagccactc ccagactgtc gtggtgtgcc cgggctgcca aacagtgtc 240
 tgccagccaa cgggtggcaa ggccaggcta accgagggtt gtccttccg ccgcaagggc 300
 gactaaacct ctgaaggaag ccaagacgtt gttgaacttt gagttattcc aggggtgtag 360
 tctgaagatt ttgcaatgtc ggcaaattga acccatcttt ggcaatatga tatctagctt 420
 gagtattatt atgatgacca 440

<210> 673
 <211> 266
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189001g11b1
 <400> 673

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 cgggggtgcg gcccggcgtt ggcgtcgacg gtggggctct cgctgcgttg ggcgctgcag 120
 cggtcgttct ttttgccgcc cttgacgggg agggcgtagt tcgtgcgcgc gctgcggggc 180
 gtggtcgcgg acgcgccccca ccgggggctg gagctctggc cggaggggag gcaggcgggtg 240
 ctgctggagg ccgtgatcgg gggaga 266

<210> 674
 <211> 119
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189001g12b1
 <400> 674

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 cagagcacc ttcggacgca cggcggcgat ggccgaggcg gtgcaggctg gcgggctgc 119

<210> 675
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189001h03b1
 <400> 675

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 tcctggtaca tttgatgtat tagtgatgcc aaatctgtat ggtgacatta ttagtgatct 120
 atgtgctggt ttgatcggag gattgggctt aactcccagc tgcaacattg gtgaagggtg 180
 catttgtctg gcagaggctg ttcattgggtc tgcacctgat atctctggca agaaccttgc 240
 aaaccaact gctcttatgt tgagtgtgt tatgatgttg cgccacttgc aattcaatga 300
 ccaagcagac cggatccaca atgccattct ccagacaatt gccgagggga agtacagaac 360
 cgctgatctt ggtgggaagt catcaacatc agactacaca aaagcagt 408

<210> 676
 <211> 371
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189001h06b1
 <400> 676

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 caccgcccgt agctctcgcc tcacgtcccg cggaaccgcc ggtagctctc gcctgccgct 180
 gatacaatgg ccaacgccgc ggtcgacccc gagcgcaaaa ggtcgcggtt gacgtcgtcc 240
 atgtcgtcca tgtcgtccgt ggacaccatt gtccgtctcc cgccctcgcc gatgttgacg 300
 tccccgacgc gcgccccggt gggacacgcg ctggaggagc ctaccgcgcg gcacaggccg 360
 gcgcggagat c 371

<210> 677
 <211> 396
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189001h07b1
 <400> 677

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cgagatcgac accaccaaga agtacaacgc tggaacgaac aaggctgcat ctagcggaac 240
 ttccctcaac accaagcggc tcgacgacga cacggagaac ctttcccatg agcgtgtttc 300
 aagtgacctg aagaaaaacc ttatgcaagc aagactggat aagaagatga cccaggcaca 360
 acttgctcag atgatcaatg agaagccaca ggtgat 396

<210> 678
 <211> 228
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189001h09b1

<400> 678

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 tgagaatgct gtcggtggtc atgtatatga acggacgcat aatattatac aatatgtcga 180
 ctatatacgt tttaatgggc accaatggat aaaaaggacc aattttaa 228

<210> 679
 <211> 388
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189014a05b1

<400> 679

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 atcggccagt cgctgtcgct gctcatgaag atgaaccgc tcgtctccgt gctccacctc 180
 tacgacgtcg tcaacacgcc tggggtcacc gccgacgtca gccacatgga caccagcgcc 240
 gtggtgcgcg gcttcattgg ccaacaacag cttgaggcag cacttacagg aatggatctt 300
 gtcacatcc ctgccggcct cccaagaaaa ccaggaatga caagggatga tctgttcaac 360
 aaaaatgctg ggatcggttc ctcgattt 388

<210> 680
 <211> 394
 <212> DNA

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aacattgacc tgagcccggt gagcggcata tttacttcga tcgagaatgc agcgtcctcc 240
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gggtcctggc tgctcacaac ctaccttgat gctgagctta gaatctccag aggagatggc 360
agcagcatct ttgtgctggt caaggaagga agcgcactct cgatataggc caagcgtatc 420
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<210> 685
<211> 424
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsflw189014b05b1

<400> 685
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tcttcgccgt cgtcaccacc gtgctctgct ccgccgcctt cctccaccac tccaaacccg 180
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gtcccatatg ctactgctgc tagtactgtt gggagggaac tactgtagac gcaaagagta 360
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tact 424

<210> 686
<211> 510
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsflw189014b07b1

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<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189014c02b1
 <400> 689
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 ctcgaaccct tttagcagca ctgtggaatc gtattgtggt tttctgattc tctgttcctt 180
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 atgtcctttg tcgagtcca 259

<210> 690
 <211> 438
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189014c05b1
 <400> 690
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 gcgatcagcc tcaagctgat catcacgctg gtcgccgcc ctgcgctggc gctggcgacc 120
 aagagggcaa ccgagggcgt ccccggcgtc ggcaaggtag tgcacaaggc gcccaatgcc 180
 atctatgccg ccgccatcac catggctgcc gtgctcatcc agagatccgc cgagggcgctc 240
 gagtagaagc ggcacgcgc cgtgaactgt agatgcacca ggcaaccagg gaggggtgtaa 300
 atgtgctgtg atttgccgtg tgaaggggtga tgccctgtgg gacttatagt tttctgtaat 360
 atcttctgt ctgtgcttct tgggtgttgc agcctggtgt gattcaaaaa gacagtattc 420
 gctgcttggt gacatgat 438

<210> 691
 <211> 187
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189014c08b1
 <400> 691
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tgtgtgaccc gccatacta gttgtttaaa ttctgaaata aaataaaata aagttgtatc 120
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ataagtt 187

<210> 692
<211> 75
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsflw189014c09b1
<400> 692

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aaacaaaagg cggcc 75

<210> 693
<211> 234
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsflw189014d01b1
<400> 693

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aatacatgca tccggtctct ctcaaaaaaa aaaaaaaaaa aaaaaaagac aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggggggg gcc 234

<210> 694
<211> 340
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsflw189014d02b1
<400> 694

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tcgtgtcctt ccgctcgcgc cgcgcgcgc catcgccata tccgcgcgcg agcagccgga 120
tccgtaccc agaccaccaa ccaagagccg cctcttgcc gtcctacggt cgagaggagg 180

acgaccgaga ggagcgccca ttgatccgcc gcctgggccg ccttggagca cgccctgcct 240
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 cggatccgcc gccagacca ccaaccaagc atcggccctt 340

<210> 695
 <211> 328
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189014d03b1
 <400> 695

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 ccagacgatg atgcaggctg ccgttgcctc gtcggccgtg ctgcctgtcg ccgtaagggg 120
 taggccggcg gcgaggagga ggagcgccac cgttgccggt ggcagaagga ttgtgggtgc 180
 cggcgtccgg gcatcggccg cggcggcgcc ggaggcggac tacagctcca acgtctcgg 240
 gttcccatg gaggcctgcg acctggtcgg cggcgaggcg tgcgacgcgc agatgtaccc 300
 ggagacgaag ctccggcgccg gcaccggc 328

<210> 696
 <211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsflw189014d04b1
 <400> 696

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 cctggagacc ctggtggccg ccggcggcaa gctgctgacc cccgccgagg tggccgcaa 180
 gctcccgctc acggcgaacc ccgccgtggc ggacatggtg gaccgcatgc tccggctgct 240
 ggctcgtac aacgtggtgt cgtgcacgat ggaggagggc aaggatgggc gcctgtcccg 300
 gcggtacggc gccgcgcccg tgtgcaagtt cctcaccgcc aacgaggacg gcgtctccat 360
 ggcggcgctc gcgctcatga accaggacaa ggtcctcatg gagagctggt actacctg 418

<210> 697
 <211> 358
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189014d05b1

<400> 697

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 catctgcaaa agttttggct acaaccgga acaagcctac tgcaatcccg atcccactcc 180
 gaggtgctgc tgcatttatt aagcgcagga aataacaatg ccaactggagt ggcagatgat 240
 ggatgacaaa gctagcaaac tcacttttat gtgtccattt cgacttatgt aaaaatcgga 300
 acagatcatg gtccaggcct gtccgtcaat taataaagat tagaaaaagt ttcttttt 358

<210> 698
 <211> 414
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189014d06b1

<400> 698

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 tccaacagcg gcggcgctg ggacaacgcc aagaagtaca tcgaggccgg cgcgtcggcg 180
 gaggcgcccg cgctggggcc caaggggtcg gacgcgcaca aggcggcggt catcggcgac 240
 accatcggcg acccgctcaa ggacacgtcc ggcccgtcg tcaacatcct catcaagctc 300
 atggcgtcg aggcgctcg cttegcgcca ttcttcgccg cgcacggcgg cctcatcttc 360
 aagcacctct gagtttgaat tccgggttcg cgcgccttgt tgctggggct tgga 414

<210> 699
 <211> 450
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsflw189014d08b1

<400> 699

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agcacttcct tccatcatg aatccaggtg gtgctagtat ctgctaaca tacattgcat 120
ctgaaaggac aatccctgga tatggcgggtg gcatgagctc agctaaagca gctcttgaga 180
gtgatacaaa agtacttgct tttgaagctg gacgcaaagg caaaatccga gttaacacca 240
tatctgcagg tcctctggga agcagagcag ccaaggcaat tggattcatt gagaagatga 300
tcgagtactc ttatgtcaat gcaccattgc agaaggagct tctggcagat gaagtcggga 360
acacggcagc attcctgggtg tctcctttgg cttctgccat cactggatcg actgtttacg 420
tcgacaacgg actgaacacc atgggtcttg 450

<210> 700

<211> 449

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014d09b1

<400> 700

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aaggggacgg atttcgagtt cataccgttt ggggctgggc gcaggctctg ccctggcttg 120
gcgttcgggc tggccagcat tgagatcgtg ctggccgtgc tgctctacca cttcgactgg 180
gagctcccg acgggggtggc cccgagcgag ctggacatga ctgaggagat gggcatcacc 240
atccgaagga agaattgatct gtacctgctg ccaactgttc gtataaagggt gtaggttctt 300
ttttcgaaaa ggagggttta ctccgatctc ggctctctgc ataataaaca tgtgccgcat 360
agttgccttg caccgtcaat ggtgacgggt ttgcccgttg tactacctgt ttatcatgac 420
ttgaataaaa taagcatgag gtttgttcc 449

<210> 701

<211> 363

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014e01b1

<400> 701

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cgccgtcggc cgcgcgggca actacaccgt gcacggcatc acggagagcc cggggggcat 180
ctgggacggc ctcaccatcg tcggcatcgt cgtcaccgga gtactcctcc gccgtcgcct 240
tcgcagctgg agcaggcacc tgttctctgg ttcccgcccc catgaccccc agcaccgaga 300
cctaagggtg agggccgacc gggctgaaaa caagggcaaa cgtgagcagt gggcggagac 360
aaa 363

<210> 702
<211> 353
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014e02b1

<400> 702

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tggtgtgttt actcactactg ggggttggttc tggaacaggt gcaagtagaa ggcaagagtt 120
gctgcaagag caccctagga agaaactgct acaacctttg ccgcgcccgt ggtgctcaga 180
agttatgcgc aaacgtttgc aggtgtaaac tcacaagtgg cctaagctgc cctaaggact 240
tccttaaatt ggtccttgag tccaactcag atgaaccaga caccatggag tactgcaact 300
tgggatgtag gtcttcccta tgtgactaca tggtaacgc agctgctgac gat 353

<210> 703
<211> 174
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014e03b1

<400> 703

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cgccgggggtg ccctgcttg tacctagatg gttactcttt ccgtccacca ttgtcaccgg 120
ctaacattgt gataatatca gtctgggtaa tgtagatta agctgttgtc gccc 174

<210> 704

<211> 245
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsflw189014e04b1

 <400> 704

 ctacgcgttc gcgcgttttc agttttatgt ttggggtcct ttctataaga tgcagggatt 60
 tgctttttatt ttcagcttct ttagtgctct tgggtgaagc tataatgtct tttcgtcata 120
 atcaatgaag tgctgggtcc ttctgggccc ttgtagtggt ccaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaccaggag taaaaaaaaa aaaaaaaaaa aaaaaaaagg 240
 ggggc 245

<210> 705
 <211> 307
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsflw189014e05b1

 <400> 705

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 ctgtaccgtg tgggtgtgtaa ggcgtcgtct tgtgttggtga tgcgcctttt cctactgttc 180
 tagttcccgct cctgatgtgc cttcctcgtc ttatctagaa ttagaatctc aaattttctg 240
 tctatgtatt tgtatctgta tcaactctatg tgtgggtgcca gctcttgata ttttctgttt 300
 gttcttc 307

<210> 706
 <211> 430
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsflw189014e06b1

 <400> 706

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 tctggggagg ggaatgtcta tgcgcagatg attgatgaag cagagggcct ggaaaagatt 120

gagaacctgc agagccatga taacaatgaa atctatgaga aggctgtgaa gattctcgag 180
gcttactgga tggaggagga agatgatgcg atgggggcaa ctatggaagc tcccacaggt 240
gttgcccttg actttggcca aggtggcaac cctgatctga acttgggctg aatacagatt 300
tgaccaatgg tggtaattcc cttgtcgctg cagttgtcac catttggctt agtcggtgtg 360
tggggtaagg tcatggttgt ggtgggtcca ataagctgaa gattttcaag gaagcaactg 420
gtcctgggta 430

<210> 707
<211> 382
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014e07b1

<400> 707

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cctctccctc cctccacct ccgctcccca cccgccccct ctctgcgcc tccccaccac 120
ccgcccgcgc gctcgctcg tctcttctgc ctccggggcc gacgcgcgc agccggtcct 180
cgaggcgagg ggcctgccc ccgacgacgg ccccgaggag gtgctcgcg ctgaggccga 240
ggaggacgcy ctctccgggc tggcgctgcy caagtacgtg aagcagcggc tgcccggggg 300
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gctccaggag ggcaccggga ag 382

<210> 708
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014e09b1

<400> 708

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tcatccaaag cgatctgctt gtttagtcag tctcgcgctt tacttatcgt tggtagcat 120
tttggtgtag gtgtacaaat tagtcggtat gcaacagagc atgtgctggg cttgggtcaga 180
tatggtgctg agctgcttgg ttgccaggt tggcaggtta ttgccttcct tgcggcagtt 240

cgtagcccg caacgtatga tcatcatgga gtaggagaag aattaaagag acagtatttg 300
 tggtagtcta gccattgttg cttgctgctg gatgtttttt cttttcagtt ctaactgcct 360
 gatactttga tatgcatcgg ataattatct g 391

<210> 709
 <211> 348
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsflw189014f03b1

<400> 709

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 ctccctcctc ctggcgcgctc gtgatccatc cagcccaggg gcgagaagct agttagcggg 120
 tgattaaggt cgccatgtcg gactccgagg accaccactt cgagtccaag gccgatgcgg 180
 gggcgctcaa gaccttcctt atgcaggccg gcgccatccg gaagggcggc tacctcgtca 240
 tcaagaaccg cccctgcaag gtgggtggagg tttctacctc gaagactgga aagcacggtc 300
 atgctaaatg ccactttggt gccttagata tattcaatgg taaaaagc 348

<210> 710
 <211> 339
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsflw189014f04b1

<400> 710

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 ctctggagcc gcgctcaagg gcaacgtgac catcgagcc aaggctggag tcaagttgga 120
 gatcccagac ggagctgtgc tcgagaacaa ggacatcaac ggccccgagg atctttgagt 180
 gacgcctgct gcatcgccag tcgcgttccc agaaaccttc ctgtcctcct tcgctgagtt 240
 aacagtcatg taattttcgc gtgcattctg ctgggggtgt gtccctgggat agccccctta 300
 cataataaat tgaatcccct ctgtgctgtt catctacac 339

<210> 711

<211> 354
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189014f06b1

<400> 711

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gcgggtgact ggaccaatgg atggtcctgt gttgttaagc tgatgggtact aacccgctca  120
tcaaaggata atgacgaata tgcattgcgt catagcagct tgccggaccgg cgtcggctgg  180
aaatgctgcc atgttgtctc ccatacatgt ctctctcttt ttggttgctg ggtaaggctg  240
catgctgaat tgtgtctagt agtatgtgta aattcctggg gccgtctgag ccttgtacaa  300
aaacgctctt gatagtgagt gttgtgcgat tctttttgta ctccagtggg tgat       354
  
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<210> 712
 <211> 380
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189014f07b1

<400> 712

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taccggttat tgctccgacc gataccggga gcatttcttc agaactctac cacgcgcgaa   60
tcgccgcgga attttactga attaccagca ccagagcaga gatctcggtc ggctcggcgc  120
caggggcaac ttccgccatg agcggccacga ggctcgtcctt ctccgggtcc aacggcaaga  180
agaagcccg cgcattgcgc cggaaccctt tcgactccga ctccggacgac gacggcggga  240
tggtccagca gagggccgag atgggggect actcgtccc gacccccgcc gccgcgccgg  300
tccccgccga cgagcggaac tccctcttcg tcggcgccgc cgcggcgggc cccgggcccgt  360
ccgggttcgc gttctcgtcg                               380
  
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<210> 713
 <211> 449
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsflw189014f08b1

<400> 713

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 tcgcggttca ggctggaggg cagctgggcc acgcggcgcc ggcgacggcg gaggtgttct 120
 ggcgcgccgt gctgccacac tcgccattgc ccgacgcctt tctccgcctt ctcaaacaac 180
 ccgcagcagg tggtgaactg ctcacagaag ccaccagctt cgtgagggat gccgaggaca 240
 ggccccctt cgactaccgt gattacagcc gctcgccgcc cgatgatgaa ccgagcaaga 300
 gcaccggcgc cgctccggg gcgcgggact tcgactacga cgactacagc gggggcgaca 360
 agctccgtgg cgccgcctcc ggggcgcggg actttgacta cgacgactac agcggggccg 420
 acaagctccg tggcgccacc gatgaatac 449

<210> 714
 <211> 320
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsflw189014f09b1
 <400> 714

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 gcggcatgat cttcgtgctc gtctactgca ccgccggtgt gtccggggga cacatcaacc 180
 cggcggtgac cttcgggctg ttcttggcgc gcaagggtgc cctgggtgcgc gcgctgctct 240
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 gcgccttcta cgtgcgctac 320

<210> 715
 <211> 400
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsflw189014g01b1
 <400> 715

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 tagcgtgcaa ggagtactat gatccaaacc gttcgtatgct ggagttgggt tttgctccag 120

cagaggaatg gatcggacgg agtgacaccg aaatcatcga agcaactatg ctagagctag 180
ccaagttggt tcctgatgaa atcgctgctg accagagtaa agcaaagatt cttaaatacc 240
atgttggtgaa gacaccgagg tccgtttaca agaccgtccc gaattgcgaa ccttgccgac 300
ctctgcaacg atcaccgatc gaaggggtttt atctggccgg cgattacaca aagcagaaat 360
acttggtctc catggagggt gcggttttgt caggaaagtt 400

<210> 716
<211> 286
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014g02b1

<400> 716

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gttggccgag ctgtagttga aatcatgtag tgctgactgc tgacgagatg atcatgtggt 120
tgaaaatctg ggtcaaacia ataagaatat gccgcggcaa ctccgcgaac tcggtttgtg 180
ttgcagcatg gtctcgctcc ctgatttgtg ttggatgcaa aaaaatttgt tgattgaaag 240
attattgtgc tccaaaaaaaa aaaaaaaaaat aaaactcgcc ctctat 286

<210> 717
<211> 329
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014g03b1

<400> 717

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tttgccctag ataactacia gaacctggca aacaggtctc tgggtgacga cacgcttaga 180
aaagtgaacg ggctcaagcc aatcgcttcg gagcttggcg tctcgatggc gcagctgggt 240
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agccagatcg tcgagaacat gaaggccct 329

<223> unsure at all n locations
 <223> Clone ID: uC-tsflw189014g09b1

<400> 720

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gggggg 175

<210> 721
 <211> 143
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189014h01b1

<400> 721

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 ggcggcaccg gcgccaaaga agg 143

<210> 722
 <211> 330
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189014h03b1

<400> 722

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 gaactagtcc aggaacaatg ggcgcgcccc agaaggtgct gatgctgtgc ggcgactaca 180
 tggaggacta cgaggcggcc gtgcccttct acgcgctggc cggcctgggc gtcgccgtcc 240
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 tcggctacga gctctacacg gagctccccg 330

<210> 723
 <211> 130
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189014h05b1

<400> 723

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atcatgtgtg accccgaacca gtgctagttc aagcttggga ataaaagaca aacaaagtcc 120
ttgtttgctt 130

<210> 724

<211> 316

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014h07b1

<400> 724

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tcttatctgg gccgtcacc tcgccggcct cctcgggcggc ggcgtcctcc tcgtctacaa 180
caccagcgct ctgcgggct aagagagcat ctacgtgtaa cacagggccg ggtctctgct 240
tgcatgcacg tctctgtaat ctacatagct acctcctgtg aatgtatgca atcaacgatg 300
caaagtaatt gatccg 316

<210> 725

<211> 385

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014h08b1

<400> 725

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aggattccat ccacataaag cccctctgga tggctcacca atctacgagc attgctccca 180
cgtgtacatg aatgctgata caaagtttga tatgattgac ctccgagaac agtgagaggt 240
atcagtttca ttctgtcata gtttggcggc tgtacttgcg gcagttgagc aaattgtctg 300
ccttgatttc tctagtgcgc tgaagaaatg cagatactga tttaagtgat tgtacatagc 360

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385

<210> 726
<211> 464
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189014h09b1

<400> 726

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ccttctggcg cgcggcgggg atgacctaca tcggctactc caacgtctgc gcggcgctgg 120
tgcgagctg cctcaaggag cccttcaaga ccgaggtctc ctcccgcgag aaggtccact 180
tctccctctc caagtgggcc gacgagaagc agcagaagcc cactgtgcgc acagatgatg 240
aatgaagatc ggggtgccatg gtgattgatg ttttgagaag ttgttgagtc agggcttaag 300
aacttgagaa taaattcttg cggtgacaat ggatctattc cgatactatg ttgttatatt 360
tactaattgc tccttttcta cttgatgaac ctgaaccatg tgaaactcgt gtcttgtggg 420
gctcgagtga gcgtgttttt atgcggtata tcttccgatg cttt 464

<210> 727
<211> 297
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016a05b1

<400> 727

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cggcaaggag gagctggtgg acgggccgtc gtacctgggg cagccgctgg cgttcacgct 120
caccacgctg atctggatcg aggtgctggt gatcgggtac atcaagttcc accgcaacgc 180
ggagctggac ccggagagga ggctctaccc cgggggctcc tacttcgacc cgctggggct 240
cgcggtggac ccggagaaga aggagactct gcaggtggcg gagatcaagc acgccccg 297

<210> 728
<211> 383
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016a07b1

<400> 728

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cgtcagtcag tgccccgcgt cccgtggccg ctctccggcc agcggcgta gcgtcgagcc 120
cccggttcct gggcgactcc ggccgcgtcg gcctcgccaa gtccacacgc cgcgacgtcg 180
ccgtccaggc caaggggtcg tggctccccg gcctcccctc ccctgcctac ctcgacggca 240
gcttggcggg tgacaatggg ttcgaccgc tggcgctggc ggaggaccg gaggacctgc 300
gggtggttcgt gcaggcggag ctggtgaacg ggcggtgggc gatgctgggg gtggcggaga 360
tgctgatccc ggaggtgctg acc 383

<210> 729

<211> 308

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016a08b1

<400> 729

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tatcgatgct gggcacgata tgattctggc agcagatcat tcggcttcag atctgatccg 120
cggcatcgcg acggagtggg gggttgactt tgatgaggac ccggaagcaa tggttattga 180
ccacatcaat tatgcctcca gcgaggttga aggtgaccac accttgattg ctggcgatga 240
ccttattcag tcagatgtga tattgggatc caaaaagact gaggcttctg ttctgttccg 300
agggattg 308

<210> 730

<211> 335

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016a09b1

<400> 730

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aagtgaagc aaggctgaac tagacaggtt ctgtgatgcc cttatctcca tcagagagga 120

aattgcagag gtagaaaatg gcaaagcaga tgcacacaac aatgtcctga agggcgctcc 180
tcacccaccc caactcctga tgggtgacgc atggactaag ccatactcta gggagtatgc 240
tgcgttcccc gccgcgtggc ttcgtggtgc caagttctgg ccaacaacat gtcgtgtgga 300
caacgtgtac ggggatcgca acctgatctg cactc 335

<210> 731
<211> 303
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsflw189016a10b1
<400> 731

gtcgattgag caccacaacc tcgtattcag atttctagat agacaggatc agattaacca 60
gaagatgatg caggccaccg ttgccttgtc ggccgtgctg actgtcgccg taaggggcag 120
gccggcggcg aggaggagga ggcgccaccg ggccgccggc ggcagaagga tgccggggcg 180
tgccgttcgt gcatcgggcc cgcggggccc ggaggcggat tacagctcca gcgctctcgg 240
gttccccatg gaggcctgcg acctggtcgg cggcgaggcc tgcgacgcgc agatgtaccc 300
gga 303

<210> 732
<211> 122
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsflw189016a11b1
<400> 732

cctacgcggc cgaaaaaaaa aaaaaaggga aaaaaaaaaa aaaaaaaacc aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaagaaa aaaaaaaacc aaaaaaaaaa aaacaaaggg 120
gg 122

<210> 733
<211> 350
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations

<223> Clone ID: uC-tsflw189016b05b1

<400> 733

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attgaagggt gttttccttg agagtggaac cccagaggaa ttctcgcttc ttccaaagct 120
cgcgagatca cagcccattg tcgacaaagc taagctcaag agtgcgactt cagtcgaaga 180
tgcattagag atcgcgagaa gctctcttta gtctggctct ttgtttaact agttgtcaac 240
acatatggcc tcttctgttt gggactgcag cttattttga aaagtcagga ctacgatgac 300
aataatgcgg ccatagtatc cgttctatgc gngtttgta attttcctag 350

<210> 734

<211> 178

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016b06b1

<400> 734

cgtactcttt tgtggacacg cgccaggacg ccacaaagcg atcagacgca tactcgatca 60
cccgcaggag cgtgcacaaa ggcagcacca tgtatcgatc acaagggagg cccagctggg 120
ggcatgaatg gcaaggacgc agagctgacc actgatgcag ggtacccta cagaaacc 178

<210> 735

<211> 285

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016b07b1

<400> 735

cgtacgcttt tgtaaaaact ccgacgatcc accacaccct gcaatggcgt gcgctcacca 60
acgtgagcct gtctaccttc gcgccacgg ccaggggcga cgtcctcgcg aggccgcagg 120
tggccgccgc ccgcgtcacc ttcccgacgg cgcaccgcgg cagcggcgcc ctctcctgca 180
gggcggggcg gccggccacg cctgcgggca tctccgacaa gatgtcggac agcatcaagg 240
aggcccagga gacgtgctcg gaggacgccg ccagcgggga gtgcg 285

<210> 736

<211> 297
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsflw189016b09b1

 <400> 736

 ggtagtggtc tatgttatga gccacatctc aactgggtggg ggcgccagct tggagttggt 60
 ggaaggaaag gagcttcctg gagtcgttgc acttgatgaa ggtgtcatga cgaggctcgg 120
 gaccgtatga ggctaagctt catttggtgc atcttaattc ctttcatgta ccgttccaaa 180
 cctgccatgt tgcctccct cttttgctcg tcttcgacca ctcgaaatgt aagagaccaa 240
 tgttttatag agaaatactg ggaactgttt gaataacacc cccagcaatt tgtgctc 297

<210> 737
 <211> 274
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsflw189016b10b1

 <400> 737

 gcgcgtgccc tttaacgcct gcatccagct gctctacggc ctgcgcgccg gcctcgacct 60
 cctcttcgag gagggcctcg acaacgtcat caagaggcac acacgcctcg gcaccgcaac 120
 aaggctggcg gtggcgggcg ggggactcaa gaactgcacc gcgaaggagg agaacttcag 180
 cgacacggtc accgccgtcg tggcgccgcc gtacatcgac agtcccgaga tcgtcaagca 240
 cgcggtggaag cgggtacaacc tcagcctcgg gctc 274

<210> 738
 <211> 312
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsflw189016b11b1

 <400> 738

 gcgcctacgc gttcgtccac gcgagcgaga gcaccgcggc gtctcgcccc aagagagcaa 60
 gccggccgcc ttatcgccct ccgccgcgac gttcatccc gtcaaggcca gctccggagg 120
 ccggcgccga cgaactcgtg ccggcggaag cgtgccggcg gcgcctgccc gtctgtggag 180

cttttgggtg tgagtgcaca atatgcatat acgctaataa gcagagtaca cccctccaac 120
aaacagatgg atctagctga tgatgtacaa ggacatgttc cctgaaataa atgtgattga 180
gacatatg 188

<210> 742
<211> 232
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016c09b1

<400> 742

cgtagttctc tgctttgaca ttaaaaaatt taaattacaa gatgagccat atatattcag 60
gaaatggagc tgcagaataa caacttcttc ttgagggaaa aagtagctga gactgaaagg 120
gggcaacagc agacgttgaa catgatgggg gcggcttcga catcgaatga gtacgagcaa 180
aatatgatcc attgtgatcc gagaaccttc ctgcagttca acttcatgca gc 232

<210> 743
<211> 51
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016c11b1

<400> 743

cctgatattt ctaaacgacc acacactcct attggagatg atgtggaatg c 51

<210> 744
<211> 343
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016c12b1

<400> 744

gcgcttattt tttccctcac gccactactc cctcctctcc tcaatggcag atctgcctcc 60
gtccctcgcc accggcccct cctccccgcc tccgacccca cccccgtacg ggccgtcgac 120
cgcgacgccg gctgctaggg ggaaggactg gaataaggtt cccgcggagc agctcgtgat 180
cgacttctgt gacccggagt tgcgtgagga cgccctacgc cagctctaca agaagcgaga 240

tggccaagtg tgacccccgc cacggcaagt acatggcctg ctgtctcatg taccgtgggtg 240
atgtttgtgcc caaggatgtc aacgccgctg tggccaccat caagacgaag cgcaccatcc 300
agttttgtgga ctggtgcccc actggtttca agtgtggtat caactaccag ccaccag 358

<210> 753
<211> 280
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016e07b1

<400> 753

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gcgcgcaccg gcgccgcgc tgccctcttc gtgctcgtct gctgcctcct cgtcggctct 120
gtcccggcgc gcctccccgt cgagcttccg acgcaggtgg taccgaagc cgttgacctc 180
ctggccaccg ccgagccgct tctggccaag cagttggcgg ctgccgaggc ggccaaccgc 240
accaaagtcc actccatgat aacagaggaa gaggagatgg 280

<210> 754
<211> 422
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016e08b1

<400> 754

ggcgagtcac cttctcaacc gaagcagact ccggagagca ggcaaggcgg agaccgagat 60
ggcgcgcggc gtgccggcgg ctaccaaggc cggcgcgggc gccgggaaga agaaggggtc 120
ggtcaccttc gtgatcgact gcaccaagcc cgtcgacgac aagatcatgg agatcgcgtc 180
gctcgagaag ttcttcgagg agcgcatcaa ggtcgccggc ggcaaggccg gcaacctcgg 240
ggactccgtc accgtcgccc gcgacaagag caaggtcacc gtcacctccg atggggcctt 300
ctccaagagg tacttgaagt acttgacaaa gaagtacctg aagaagcaca atgtgcgtga 360
ctggctccgg gtgatttcat ccaacaagga gcgcagtgtc tatgagctcc ggtacttcaa 420
ca 422

<210> 755

<211> 138
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsflw189016e09b1

 <400> 755

 cttagtttga tcatatcagt agaggaagta gcagcagtag catcggattc taataaccga 60
 gtgagtctgt atcgtggtgt cgaagatggt agtaattagt ttgattaacc tgtctaattg 120
 atgtaccatt tgcgaaaa 138

<210> 756
 <211> 280
 <212> DNA
 <213> *Triticum aestivum*

 <223> unsure at all n locations
 <223> Clone ID: uC-tsflw189016e10b1

 <400> 756

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 gagtcgttgc acttgatgaa ggtgtcatga cgaggctcggg gaccgatga ggctaagctt 120
 cattttgtcg cgtctcaatt cctttcatgt accgttctaa acctgccatg ttgtcctccc 180
 tcctttgctc gtcttcaacc actcgaaatg taagagacca atgttttata gagaaatact 240
 gggagctggt tgaataaacac cccccagcaa tttgtgctca 280

<210> 757
 <211> 382
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsflw189016e11b1

 <400> 757

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 gcgtatactg caggccaagg atcacaccag aactggcgtg gggcgcaata cacaccggc 120
 catcaggcga ggtattatag gaatgggggtg actacaaggt acgagcctgt tgctggagga 180
 ctccagaatg gaccggcacg ggcacgggac tcgcggtcgc aaggctcctc aagccgtacg 240
 gaatggcgag gaagcagcca acatcagacc tgaccagaac tgtagtcgc agcaaagata 300

gcaatttgct gtttcattg gctgacaaaa tgtatcgatt tcgatttcat gatgtatgtc 360
atccttcata ctttagcttg tc 382

<210> 758
<211> 366
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016e12b1

<400> 758

agcgggtaac ttttcttcgg acaagattag tcagctgact gatattgtct acgtctgccg 60
ctctggatct gcagctgaca cgcaagttat ttcggattac gtgcgttatt ttctccacca 120
gcacacaatc cagcttgggc aaccagctac cgtgaaagtt gcatccaact tagttagggtt 180
attggcctat cagaacaaga gcatgttgca agctggaatg atagttggtg gatgggataa 240
atacgaggga ggccagattt actcgggtccc tcttggtgga acgattctga ggcaaccatt 300
cgcaattgga ggatccggtt ccagttacct gtatggattg atggatcatg aatggaaaga 360
gggtat 366

<210> 759
<211> 142
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016f04b1

<400> 759

cgtttgcgcc accgacgagc gcttcgacga cgactacatc gaggccatga tcgccgccgc 60
cgacgccgac ctggacggct tcgtgcagta ccacgagttc gagggcctcc ttggccgcgc 120
agctaaggcg gtggcggaca gc 142

<210> 760
<211> 137
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016f05b1

<400> 760

cttgacaaaa gcccatcttc ttctccttga aatctttttg ggttcacaga tttggaggat 60
gtcttgcaac tgtggatccg gttgcagctg cggctcagac tgcaagtgcg ggaagatgta 120
ccctgatctg acagagc 137

<210> 761
<211> 246
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016f08b1

<400> 761

ggtgctggcc cggctcggtg ctcttggaag ccgttttctt tctggcggcg gcggccgtgt 60
cggaggccaa catcggcgag ttcgacgagt actggcagcg gcgccagctg gaggccagag 120
cccgcgcgga ggccacctac catcccaacc ccatcgaggt cgccaacagc ttgaaccgcg 180
ccgtccacag gaccgttcgg gaggagagcg gctcgaggag gaagttgctg ggactgcaca 240
agaagt 246

<210> 762
<211> 95
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016f10b1

<400> 762

gctgaaaaaa aaaaaaaaaa aaaaaaagaa aaaaaaaaaa aaaaaaaaaac aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaacg gggcg 95

<210> 763
<211> 232
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016f12b1

<400> 763

ttcgcgctac tcgtccgatac agagcagatt aaggcagaga cacagagcag agcggataaa 60
ctcgagggag attcgatcat caccacacca accatgtcgt gctgcggagg caactgcggg 120

tcttcctgt caagtgcgta tgggtgcaat acctgtcaact gatctctgaa agcaacggtg 180
 atgtagagcg gggttgtcta catatgtgtt gaaatgtgca tcctttctca gattcatata 240
 ttaacaaaga atgtctgtca ataccatctg gtaaagattg ctactccctc tgatccatat 300
 tacttgtgat gactttctcat tatggctctg aaaagaagga ttagtatgcg ccatctgggg 360
 cttgctctgc agcttttcat cctggacaga aattgtggat ggatgattag tatgcaccat 420
 ct 422

<210> 772
 <211> 380
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189016h08b1

<400> 772

tttccgaata cttgacagac aggagccgac atgatcaagg gcaagacccc ggaggagatc 60
 cgcaagacct tcaacatcaa gaacgacttt acgcccaggagg aggaggagga gatccgcagg 120
 gagaaccagt gggcctttga gtagaggagc atctaggcga tgccaccgcc gcgctgaaag 180
 aactacgcgt agtatctgtc atgtctgtat ttcagcgctc ttctttatgt ctgtcgtaat 240
 gggttgtaat tatcctcgag tctatgaggt ggtgtcgggtg aacatcttcg gtcagtgggt 300
 atgtttgcga gaacaagaaa aacctatcgt ggtctgtggc catcgcttgt caaactgaat 360
 cttaatcgtc aagtggatgc 380

<210> 773
 <211> 276
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189016h09b1

<400> 773

ttttcgatta cacacactcc acgctcgccc aggaaaacca gcggcaagaa gcaagttcag 60
 ttgaggttgg aggtcgagtg ggatcggatg gcgtcggcgc cggaggagtt cctgggagcg 120
 cgggagggcg gggtcggcgg ggacgcgctc tactgcgcca tcatcctgtg gctgtccgtc 180
 atgtcgtgga tcatcttcac ctgcgtcggc ggcgacgacg gcggcaggcg ccggaggggc 240

cgccgggaca ccaaggtctt cgtcggcgcc gagegc

276

<210> 774

<211> 309

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016h10b1

<400> 774

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gcgcccaccc gtacgtggcc ggggatcgga tggacgatca tctggcggtg ctggcgcgcg 120

gcgaggggtg gacggaggag cggcacgcgg cgttcctcga cggcgtggag cgctccttcg 180

tgcaggaggt gtcgtggggc gccgccggcg tcagcgagga gcggcgagcg tcgcgcaggc 240

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tccctgaca 309

<210> 775

<211> 67

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189016h11b1

<400> 775

gcgactacgc gtgcgcccac gcggtcgacc acgcgtgcgg ccacgcgtgc gccacgcgt 60

ccggcga 67

<210> 776

<211> 265

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042a01b1

<400> 776

ctgacgtgtg ggctcggaag ctcgcattgc agcgttggt tgaagttatc gaccctgac 60

accggtacgg gcacaacctt cactactact acgactgctg gctgaggtgc gaaagcaggg 120

agcctttctt ctactggctc gacatcggag agggcaagga gatcaacctc gaggaccgat 180

gcccgcggtc gaagcttctc agccagtgc tcaagtatct tgggccgaaa gagagagagg 240
aatatgaggt tgtgatcgag gatgg 265

<210> 777
<211> 259
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042a02b1

<400> 777

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cactagctgc ttgcaaagct ggagccagcg tcaagaagat tccgctgtac cagcacattg 120
ccaaccttgc tggcaacaag caattgggtt tgcctgttcc tgcattcaat gtcattcaatg 180
gtggatccca tgctggaaac aagcttgcta tgcaggagtt catgatcctt cctactggag 240
ctgcctcatt caaggaggc 259

<210> 778
<211> 183
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042a04b1

<400> 778

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caggaggagc acgccgcacc ggagcgccga gacctcgaag ccttcgtctc cacctcggag 120
cagagatggg gctcacgttc accaagctgt tcagccgcct ctttgccaag aaggagatga 180
gga 183

<210> 779
<211> 260
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042a09b1

<400> 779

tcgttacgcy tccgatcaat ccattcttcc atccggattc atttcctttg agcagctcct 60

tcagcaacta tgaagggcac caagctcgcg gcgatcctga tctccaggc cgtcctggtc 120
atgggagtc tctcgacgt caacgccgac ttcttccca agtgctgcaa caactgcagg 180
ttcttc 186

<210> 783
<211> 247
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042b05b1

<400> 783

tagagtgtgg cggctacaac aacggctacg gcggcggtgg ctcgtacagc aacggcaacg 60
gcggatatcac gccctacaac ggcgggcggtg gtggctacaa cagcaactct ttctacggaa 120
acggcgggcg tgggtacaac aactcttctt acggcaacgg caacggcggt gacgggtaca 180
acaacgctcc cagttgggca tctcaggaca ccggcgggccg gacgccgatt gtcataaaca 240
ccaggga 247

<210> 784
<211> 266
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042b06b1

<400> 784

ttagatcgtg gcggctacaa caacggctac ggcgcggtg gctcgtacag caacggcaac 60
ggcggtatca cgccctacaa cgggggcggtg ggtggctaca acagcaactc ttctacgga 120
aacggcgggc gtgggtacaa caactcttct tacggcaacg gcaacggcggt cgacgggtac 180
aacaacgctc ccagctgggc atcccaggac accggcggtc ggacgccgat gtacataaac 240
accagggagg tccacgttta tggggc 266

<210> 785
<211> 113
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042b08b1

<400> 785

tcgctgcatg ctccgtcgtg ccatagcctg tggtgtgccg gattcggcca ccggggccac 60

tagatccatg gcaagtggat cccgtgcgtg ctagattcgg ctgtgttgcg ccc 113

<210> 786

<211> 109

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042b09b1

<400> 786

tcggctcctgt acccggagct ggagtgggac tgccggctgt cggttggtgaa gagcatcaac 60

gtgagcgggc acaagtacgg tctcgtgtac gccgggatcg ggtggtgca 109

<210> 787

<211> 315

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042b10b1

<400> 787

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tcaagaagct ccacccctc ccatatcagg gcaatcaggg tatacaccat ttgccagtcg 120

gagctcacgg actgctgcac gcgcaatgga tttggaattc ctttctttat caagcagtaa 180

taacagaact gctgcgtcaa cagagcaggg ggtacgaaag gtagctgaga acactcatgc 240

atttgggctt cgacaacaaa gcaacggaat tgtgaatata caccattctg ctcagcattg 300

gtcccttaaa aatac 315

<210> 788

<211> 129

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042b12b1

<400> 788

tcgttctcgc cacaacctct ctctctcctg tgctccactc tacagaacag aacaaacagt 60

aggaggagcg ctctccttcg gccgcgcgcg tctgcgtccg ttccgcaatg gaggcgtgac 120
tcgcgagcg 129

<210> 789
<211> 231
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042c01b1

<400> 789

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cgtgaagctc ttcaaccgct ggaccttcga ggatgttcag gtgaccgaca tctcgtgaa 180
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<210> 790
<211> 185
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042c02b1

<400> 790

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caagaatgtg atagagaatc caaacgatat tcggtataga agactgcgta agaccaatcc 180
tcatt 185

<210> 791
<211> 305
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042c03b1

<400> 791

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ttttgtat ttt tgtgaggagc cacagatgtt tacaaatact agaatgatgc atgataggtc 180
gcacacaaac tcttgaccag gtgcctctca catattctca tgtttgtact atattcttct 240
taaactgtta acacaatgag catgtacttg gttcatccaa gaacacaatg agcatgttct 300
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<210> 792
<211> 165
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042c04b1

<400> 792

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gtgccaaggc caaggcccca acaaataacg ttgatggaat gaaaa 165

<210> 793
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<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042c05b1

<400> 793

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aatttcaact ggaaatagat agttcatctg gcaactttgg tgcaacatct tctctccata 120
gatgtgcac tgatgacttc catttctcgt tttgggttagg agtcccacg atgggatgg 180
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<210> 794
<211> 217
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042c06b1

<400> 794

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atgtgcatct gatgacttcc atttctcggt ttggttagga gttcccacga tgggatgggt 180
acaaacttaa agtccaagtg actttaaaag aaacaac 217

<210> 795
<211> 179
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042c07b1

<400> 795

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gatggggcgg aggatcctca acgacgcgct gcgcacgatg gtgaacgcgg agcgggtggg 179

<210> 796
<211> 215
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042c08b1

<400> 796

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caggctcaga tgggaggcaa gtgcccgcac cgcaaggtca aaaagcgccg tctcaactgc 120
aagcaggtgc gccgcggcaa gttcctcgtc aaagccgacg acgccgtcta cgacgagctc 180
gttaagctgg ccgaccaggg tatggattcc gaggg 215

<210> 797
<211> 166
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042c09b1

<400> 797

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CCAGGAGAGG

aatataagtt ctttgaaggg ccggagaggt aactgtaggg gaaatg 166

<210> 798
 <211> 92
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189042c10b1

<400> 798

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ccgatacctaa gggacggggt aaccccgga ga 92

<210> 799
 <211> 129
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189042c11b1

<400> 799

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cagaagggtg 129

<210> 800
 <211> 120
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189042c12b1

<400> 800

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atactatgac actggcattg agaccaactg ttagagacat atgtacatgt gccattcaa 120

<210> 801
 <211> 133
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189042d01b1

<400> 804

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gagttcttcg gtgttaaaga tgttcctaga catagttacc gctgtctggc tgtctgttgt 120
tgtgtgt 127

<210> 805

<211> 175

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042d05b1

<400> 805

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gactgtatgg cacatgccta gacttgtatg ttgacccatg gaagtctaac atgga 175

<210> 806

<211> 161

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042d06b1

<400> 806

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ttgatgaagc atgtgccagt agcaaggcca agaagaagac cagccatgat gctctgggtc 120
gactgtatgg cacatgccta gacttgtatg ttgacccatg g 161

<210> 807

<211> 151

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042d07b1

<400> 807

tcggtatcat catccctgat accaaagctc atcttcttct ccttgaaatc tttttgggtc 60
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cgtagcggtg cgacgacccc ttcaaccact ggagc

335

<210> 814
<211> 339
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042e06b1

<400> 814

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ccggaagaag cacgccgacg tgcgcacat gtacgccgac tactacacgc ccaccatcca 180
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ggcggcgggc gtgggggtgt acaacttcaa cctgacgtcc aagtgcggag agcccggcgc 300
gtacgcgtgc gacgaccct ccaaccactg gagctggga 339

<210> 815
<211> 103
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042e07b1

<400> 815

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ccggatgcc gcttgcccag cgaggcggcc agatgtgtgg atg 103

<210> 816
<211> 362
<212> DNA
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<223> Clone ID: uC-tsflw189042e09b1

<400> 816

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caccagatct ggatctcttc attccccttt gggctttggt caacgctttt gcttggtgag 180

catcgtcgac cggtctgcagg ttgctcatgg tctagctacc tagaagacga gcagcagcag 240
caggccttgg cgagtctccg tgtcccccttc cctcctttcc ccagcaagtc aagggaggaa 300
gaaggggaagg aaggaagtta ggagaagctg ctacgcgccg aagccttata gctttgctga 360
ca 362

<210> 817
<211> 132
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042e10b1

<400> 817

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ttgtgctctg cc 132

<210> 818
<211> 183
<212> DNA
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<223> Clone ID: uC-tsflw189042e11b1

<400> 818

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gggaagtgc ccatggctct ctcgactgcc ttctgtttat gaagccattg ttatccctac 180
aca 183

<210> 819
<211> 199
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042e12b1

<400> 819

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 cgatttgccc tgttgagg 199

<210> 820
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<223> Clone ID: uC-tsflw189042f01b1

<400> 820

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 cagttttccc tagtatagtt ggccgccctc ggcacacagg tgtcatgggt ggaatgggcc 240
 aaaaagaagc ctatgtgggt gatgaagcgc agtcaaaaag gggtttcctg accttgaaat 300
 accctattg 309

<210> 821
 <211> 215
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189042f02b1

<400> 821

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 gcccgacccc cgtcctgcgt cgccaccccg cgcgccggcg ccatctgcaa ctccatcttc 180
 tcttcacccc cttcctacga cctcaacgcc ttcaa 215

<210> 822
 <211> 172
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189042f03b1

<210> 826
 <211> 110
 <212> DNA
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<223> Clone ID: uC-tsflw189042f08b1

<400> 826

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<210> 827
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<223> Clone ID: uC-tsflw189042f09b1

<400> 827

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 tcaatgcccc gtctcattgg atgcttgaca agc 153

<210> 828
 <211> 112
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189042g01b1

<400> 828

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<210> 829
 <211> 375
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsflw189042g02b1

<400> 829

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gcttttgcag cattgggtgg ctttatcctt gcaagacctg atatcaaaaa gtggtggatt 360
tggggttact ggata 375

<210> 830
<211> 156
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042g03b1

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aaaggggccc gggtttcttc atggacagcg tgatcg 156

<210> 831
<211> 146
<212> DNA
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<223> Clone ID: uC-tsflw189042g04b1

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accctgatct gacggagcag ggcagc 146

<210> 832
<211> 120
<212> DNA
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<223> Clone ID: uC-tsflw189042g05b1

<400> 835

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cc 182

<210> 836

<211> 137

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042g12b1

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<210> 837

<211> 256

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042h01b1

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ccgccggcca agatgttcgg ccgcgcccc aagaagagcg acaacaccaa gtactacgag 180
gtgctcgggg tgccaagaa cgccgtccag gacgacctta agaaggccta ccgcaaggcc 240
gtcatcaaga accacc 256

<210> 838

<211> 156

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042h02b1

<400> 838

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cttgtctccc ccaagcacac accggcaccg cagtaagcca ccaacgcgcc aagagaaaca 120
ctcgagggag agagggagag cacgcgtgcg cgcgcc 156

<210> 839

<211> 203

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<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042h03b1

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acttctctga gaatccgtac tttgaagaca gaaagcttac caagtcatat gcctttgctg 120
atgatggaac aaccacaata aatgccactt ccattaagtg gaaggaggga atggaaatta 180
atgggaatgc cattatgaag aaa 203

<210> 840

<211> 286

<212> DNA

<213> Triticum aestivum

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gattactgag tcaagccagc caattgttaa gaagcgtctt ccaaagaaaa tcagacaagt 240
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<210> 841

<211> 201

<212> DNA

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ggtgcggcga gcacgacggg a 201

<210> 842

<211> 205

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042h06b1

<400> 842

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<210> 843

<211> 220

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042h07b1

<400> 843

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tatgcatctc actgaagcaa tctgttgcag aagaggcgga gaccttctt gggttcaatt 180
tagggccacc ttctactgtg tcgagattta gtacttatga 220

<210> 844

<211> 110

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042h08b1

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<210> 845

<211> 225

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsflw189042h09b1

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cggccaatgg cggaccagct caccgacgac cagatcgccg aattcaagga ggcttttcagc 120

ctcttcgaca aggatgggga cggttgtatt accaccaagg agctgggaac tgtcatgcgt 180

tccctggggc agaatccac tgaggcagag cttaaagaca tgatc 225

<210> 846

<211> 98

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005a10b1

<400> 846

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ggtgaacttt acacttgcca agggcctagt gcccgctc 98

<210> 847

<211> 176

<212> DNA

<213> Triticum aestivum

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<210> 848
<211> 401
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189005a12b1

<400> 848

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gtactctgat ttggatactg ggccgtctcc cttttttact ctttttttcc tcattttttt 360
tgtttaggtt atatataccg ttaacttgcc tgcgcccgc c 401

<210> 849
<211> 487
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl1189005b10b1

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<210> 850
 <211> 258
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189005b11b1

<400> 850

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catgaaaaaa aagaataat ttttaaataa gagaacaaaa aaaaaggtgg gcgggcctgt 240
taaaaaacaa aaaattaa 258
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<210> 851
 <211> 351
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189005b12b1

<400> 851

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aaccaacca gaccatggcg ccccgaccc gcgcgtgcgc atagcagacg tatgcggtga 120
ggacacaggg gcgtatgggc atgtcgcgcg cggaggcagt ggaatgtttc aagctcgggg 180
aaaggccct agggggagat cgtcagtgcc gcccggtgtc cgagcgcgcg aagcccgtt 240
tcaaggtggt ggcgactag cgattcatcc acatcgcgat tgttgtgggc ctgataaagt 300
ccgacccaaa gccatactg tttcagtttc tcgaaccgat cggatcgatt t 351
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<210> 852
 <211> 304
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189005c11b1

<400> 852

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cccactcgtc cgtccacgcg tccgagccta ctactagcaa gatataacc tacatagtag 60
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aggcatggcc cccaccgtga tgggctcgaa ggacacctac gacgctcctt tccaggggct 120
 caagagcacc gacggtctcc ccgtcaggcg tcggtccaac ggcgctagcc ttggcagcgt 180
 cagcaacgga ggaaggatca ggtgcatgca agtgtggccc atggagggca tcaagaagtt 240
 cgagaccttg tcttacctga caccgctcag cacggaggcc cttctcaagc aggtagaata 300
 cctg 304

<210> 853
 <211> 89
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189005c12b1

<400> 853

cccacttcgt ccgtccacgc gtccgaagct actatgtttg agattgctgg gattctgttg 60
 actgtattgc cggattaatt tgttgggtc 89

<210> 854
 <211> 497
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189005d10b1

<400> 854

ggcgctccag tggaccacgc tgtcgggcag tggcgccgag gacgttaggg tcatgaccag 60
 gaagagcgtc gacgaccccg ggaggccgcc gggcatcgtc ctcaatgctg caacctcctt 120
 ctggctaccg gtcccgcta agcgcgtctt cgacttccta cgcgacgaga cctctcgcag 180
 cgagtgggac atcctctcca atggcggcat cgtccaggaa atggctcaca tcgccaatgg 240
 ccgcgaccat ggcaactgcg tctcactcct ccgtgtcaat agcaccaact cgaaccaaag 300
 caacatgctg atcctgcaag agagctgcac ggacgcacgc ggctcctacg tcatctacgc 360
 gccggtggat gtggtagcca tgaacgtggt gctcaacggc ggcgaccag actacgtcgc 420
 tctcctgcca tcaggcttcg ccatcctgcc cgacggctcct gcagggacaa tgcacgccgc 480
 ggcaggggca acccggc 497

CCP303313.1

<210> 855
 <211> 507
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189005d11b1

<400> 855

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ggcagttcga cctttgcatg gcagcagtg ctagctcaa ggggogggtg atcgctggga 60
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cgtcggccta cgacaagaac gtggacgagc aggtgcgccc ggccttcgtg ccggacgatg 180
tgatcggcgg cgccgggagc ccagacaagt actggggccc tcaccgacc accggcgtct 240
tcggcccggc cgcggtcgac cccaagctgg ccgccagcct cgcgccgggt gctggcgccg 300
cgaatggtgg cgctccgtg ctggaccaga aggtgtggtt ccgccgctc gaggacgtcg 360
agaagcccc cgtcgcctga tcgccgacga cgacgaccat agcccagctc tacatctcta 420
tcaactcgct tagctgggct cgacttcta cttataatta catataatct gtagtggtgt 480
gctcgtgcta tagtacagac atggcag 507

```

<210> 856
 <211> 315
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189005d12b1

<400> 856

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gcatgttttg aatgaagggt ctcttgcggt ggtgaacctg atgtttgctg ttcctgtaga 60
caggatcctt gggttccttt tgctgctctt gcttttgatg taatggttat cagtgtaatg 120
gtaatcaagg cagattgtac tttgtggtag ctggtgaatt tagggctacg ttgggtggcc 180
ggcctgtggt gaccgttttg gatgctttat ggctggttg gcttcgtttt gatcttttct 240
tttctgtttg aactcgtttg tagaactcgg tggttttcag taatgaaaat tggaaggggc 300
aagccctttt ttgat 315

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<210> 857
 <211> 374
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189005e10b1

<400> 857

cggacgcgtg ggggagctcg tcatccacaa cccgggcgtc gaggaggacc cgcctgcgg 60
cccgtcatc gacgccgctg ccatccgcac gctctacccg cccacgctct ccaagggcaa 120
catgctcaag aacggcggtt tgcaggagg cccctacttc ctccccaacg cctcctgggg 180
cgtgctcgtg ccgccaaca tgcaggacga cactccccg ctccccgcct ggatgatcat 240
gtcctccaag gccgtcaagt acgtcgacgc cgcgcacttc aagggtgccg agggcgcgcg 300
cgccgtcgag ctcgttggcg gcaaggagag cgcgctcgtc caggaggtgc gcaccgtgcc 360
cggctgggca tacc 374

<210> 858

<211> 412

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005e11b1

<400> 858

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cttcagggtg tattcatgtt tggcatatgc cagctctgac cgaaatcttt ggggacgatt 120
ctgtattaca atttggtgga ggaacttttag gacatccttg gggaaatgca cctggtgcag 180
cagctaatacg agtggcttta gaagcctgtg tacaagctcg taacgaaggg cgcgatcttg 240
ctcgcaagg taatgaaatt atccgagcag cttgcaaag gagtcttgaa ctagccgcag 300
cttgtgaagt atggaaggcg atcaaattcg agttcgagcc ggtagatact attgataagt 360
agataaaaact aaagataaag aagagaaggt ataaataaaa aagaaacgaa at 412

<210> 859

<211> 501

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189005f10b1

<400> 859

ggcctaaaaa ctgcacgatt caatccgttc caaaacaagg gtagccgtca ccatggcgag 60
 ggcaacgaca ctggtgctcg tggccgcgct cgccgtcttc ctctctctcg cctccggccc 120
 cgcgggcgcc acggccgccc ggacctcgcc caaggacgtg gcaacggcat ctcccgacga 180
 gaaggtcgct gtggcgggcg cggaagacca cgagtgcgag atgatggccg gcgagaagca 240
 gcgggatgag tgcattggga ggaggacgct cgccgcgcac accgactaca tctacacca 300
 ggagaagcac aactagtagc cttcatatct gcgtccatgt aatgatgtta ttgttagtcg 360
 gcactgcgtc tgcgtgttcg atctctatcc tatagcttcc tccatgaaca agggatcgat 420
 cccaccgtgc atgcatgcat gcatggcgca attatgtatt gcctaaaata atttagtaat 480
 tcgataatca aactggnntt t 501

<210> 860
 <211> 297
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189005f11b1

<400> 860

tcgccctttc gtgcgggctt atcctcccct tccggttcgg gttctgggtc ggctctggtc 60
 cgagagtagc tagcctagtc tagggtttcc gtagagagga agggagaggg agatccattc 120
 atggcggaga cggagtaccg ctgctttatg ggcggcctcg cctggggccac cgaccacaac 180
 aacctacagt aggccttcag ccagtacggc gagatccttg acgccaagat catcaaccac 240
 cgctagacgg cgaggctccc cggtctcggg ttcttcacgt tgggcataga ggagaca 297

<210> 861
 <211> 474
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189005g10b1

<400> 861

tcgcccactc gtccgggaat ccgaggccaa gtgccacgca actgtggtgt ccgggtggtt 60
 cacaggaacc cgctcacgct ctggtaaacc aagcaaagcg cagtacttca acaatccaat 120
 gtggcctggg gaggctcatt cgttgaaagt agagaagatt ttgtaccagg ggaaatcgcc 180

ataccaagaa gtttttagtat tcgagtcttc aacctatggg aatgtccttg tgctcgatgg 240
 aattgttcag ctgactgaca aggatgaatg tgcataccag gaaatgggta ctcaccttgc 300
 actgtgctca attccatctc ctaaaaatgt tttggttgtc ggggggtggtg atggtggtgt 360
 actacgagaa atagccaagc atgactcagt ggagactata gacatatgcg agattgatca 420
 gctagttatt gatgtttgta aagatttttt cccacgtctg tatgttggat ataa 474

<210> 862
 <211> 419
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189005g11b1

<400> 862

caccgcgtca tcttcgtaac cctctgctcg tctctctctt cctcgcagca gcagcagcag 60
 cccccgtcgc ccagatcgcc atggcggccg agccggagca ggcgccggcg gcgcaggagg 120
 cggccgtgca catcgtgtac gtggaccgcc ccgaggacgc cgacccccgag gagttccaca 180
 tccgcaccct cgccccgctc ctcggcagcg aggagaaggc caggggagcg gtcctctacc 240
 actacaagca cgccgccagc ggatttctccg caaagctcac caccgagcag gtcgaggacc 300
 tcaagaagca accaggtgtc cttcaggttg tgccgagcca gaccgtccag ctccatggaa 360
 atgagggagg acatgccaag acaacgcgca ccatgggcct tatgtgaaag ccctgagta 419

<210> 863
 <211> 329
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189005g12b1

<400> 863

tcggatgatt gcgacctaaa atacattcga tcattcgggt caccatacgt gctgagcata 60
 tctgcattgg agacggtatc gttgaagata accatatgac ctatcggatg caagcgttcc 120
 actctcgtgc tgctcttttg tgccgctccc agaactacag cagcttaatt tctctgtaaa 180
 gtttttctgc gaatcttgta tctgcaggct tctagtgagg ctgtatcata gcacaggtgt 240
 catgatctgc tggctaccac gcttggatat ctagagattt ggatttctca atagagcttc 300

tcatgggtaa aagaaaaaaa aataaacag

329

<210> 864
<211> 323
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189005h10b1

<400> 864

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gccttctctg tccagttctg caccggcgctg gcgacccta cacacgggct ttccggcgctg 120
ggcgcccttg agggcgctcg gatggaaata atcgtaact ttggggctctg gttacacggt 180
gtacgccacc gccgccgacc ccaagagggg ttcctctggg caccatcgcc catatcgcca 240
tggtttatat ggtgggcgcc aacatcctgg gtgccggccc tttctccggg ggggtccatga 300
accctgcacg ctcttcggc ccc 323

<210> 865
<211> 220
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006a02b1

<400> 865

agcttttcga cttttgatg catagcgagc tcaagcgga catcgtcgta gtccaaggag 60
ctacacgca acttgccaca aacgtaaata atattggacg gcaatttcga caattgggtg 120
tcccggaaca tcaggggcga agactgggtg actcctatcg aaacgcaaaa gaatagcgcc 180
accgggatcg aggatttaag cttctgggccc gatgactgcg 220

<210> 866
<211> 158
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006a03b1

<400> 866

aagtggaaga tctgtgatgt gctagctaga tcgatcaccg tttagctgat cgatgaagag 60

ctacaaaata aatgggccat acatcatcat gtgtggccag cactattgca ccttggaat 120
aacagaccta tgtttctgaa taaagctttt gtccgaat 158

<210> 867
<211> 517
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl1189006a04b1

<400> 867

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cgtttctgca caagagatca tggcgaagat gtcgtcgacg gccaccgtca cccgcgcca 120
cctcgagaac aagctcgccc tcgccaacg ctgctccaga gaggcgacgc tcgccggagc 180
aaaggcggcg gccatcgcca ccgtcgctc tgcggtccca acgtggcgga gcgtgaggat 240
gctgccgtgg gccaaaggcg acctgaacct caccggccag gccctcgctg tctgcaccgt 300
cgccgggatg gcatacttcg tcgcggcaga caaggccatc ctgctcgctg cgaggaggca 360
ctcgtacgag agcgccccg accacctcaa ggacacctcc ttcgctggcg ccgncgccgc 420
cgctcgtncg cgtccgccg cattcttcag gccttgatct agcgtcctgc taatgtatga 480
tacgcacgct ngtgcccttg gcgtattcta gagacat 517

<210> 868
<211> 262
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006a05b1

<400> 868

ctcattgaaa gaagcaacat cttgttgaat cgtccctcta ccactttcct tgtcaaccag 60
agtaatggcc ccagccaaga acattggggc ggcatgaatc cttgtcattg tcatggtggc 120
aactgcatta ttaccgtcgt caagcgccac cctcaccaag tccggcgaga acctgttcaa 180
gtttgccttc gtcgcgtca tcgatacggc cctcgacgat gtcacgcca ccacccacc 240
agccaaaata cccgaagtac aa 262

<210> 869
 <211> 486
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl189006a06b1

<400> 869

gttcaacagt cctaccatac atacatttcg ccgccaagaa tatccaaggg atccaaccaa 60
 gagagctagt agttaacaat ggcgtctgtg gggttcggca gcagcgtggc ggccgtggcg 120
 ccggcgggga ggacgagcct tcgcccgcag cggacgcggc tggcgggtgcc ggccggccacg 180
 aggggcacgc cggctccggc caagaaggag aagagcatcc tggacttcat cgtcagcgcc 240
 atcgtcaagg acgagcagga gttcatcgag accaaccgcg tgctcaacaa ggtggacggc 300
 ccggcgcctt ccgccggtgg caccgcctcc aggaaggccg gcggcaccac ctccggcaag 360
 aagcccgcgg ccggcagcga gggcggcggc gggttcaacc tcggcggcct cttcgccaag 420
 aaaggctagg ctgaaccagc ccgcctaata cgtaagcgcg cgcttgggtg cgtgcttnca 480
 tctcat 486

<210> 870
 <211> 460
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl189006a09b1

<400> 870

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 gaacagctat tctggggatg cagcttttga ttgatggaga ggtatggaag aaagttgtgt 180
 atgttgacag gctggtgcaa ttgttcagat atgtaccag cgaacaatta actatcccag 240
 attttgtatt tcagcatgat ttggaggtga atggtggtag gggcatgatt gtggacccaa 300
 gaacaaaaca tatctatcag agaccatctg gctgattcat gtcatttatg cagtccaaag 360
 ctcatatttg ttgcttgtgc aagtctttgt ataattactc ctttgggtgat atttctcgnt 420
 ttcctttgta tcgaatttag gggttctatt cctttcatte 460

<210> 871
 <211> 448
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006a11b1

<400> 871

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cctcggcacc cccgcgccct ccaactctc ctccttcgcg cccaagctca tcaggaacac   120
ccccgtccag gccgcgcccg tcgcaccgc attgatggac gccgccgtgg agcgcctcaa   180
gaccgggttc gagaagttca agaccgaggt ctacgacaag aagcccgatt tcttcgagcc   240
cctcaaggcc ggccaggcgc ccaagtacat ggtgttcgcg tgcgccgact cgcgtgtgtg   300
cccatcggtc accctggggc tggagcccgc cgaggccttc accatccgca acatcgccaa   360
catggtcccc tcctactgca agaacaagta cgccggtgtt ggatcggcca tcgaatacgc   420
cgtctgtgct ctcaaggttg aggtcatc                                     448
  
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<210> 872
 <211> 486
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006a12b1

<400> 872

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cggccggcga caccctggag gactcaaga gtttggtgca gagcgccagc gtcgcggagc   120
ggaaccttct cgccgacgct tccaggatcg ccgagcgggt cggcaggacc tgcaagggca   180
aggcggagtg ccgccgcgcc gtcgccgacg gcctcagggc cctcggctat gacgccgccg   240
tctgcaagtc gcggtgggag aagaccccgt cctaccccgc tggggagcac gagtacatcg   300
acgccgtggt tggggacggg gcgaggctga tcgtggaggt gcacttcagg tccgagttcg   360
aggtggcccc gtcgaccaag gcgtaccgcg cggcgctcca ggcgctgccg ccgctgttcg   420
tgggcacgtc cgaccggctc gggaagatcg tgtccgtggt ggcgaggcg gcgccgaga   480
gcatga                                             486
  
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<210> 873
 <211> 487
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189006b01b1

<400> 873

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tacggggcca ccgacgaacc cgtccgccat gttgaagcaa ggaggaaagg ccaagccgct 120
caagcacgcc aaggctgccg agaaggacta cgacgagaat gacctggcat acctccataa 180
gaagaaggac gagcaaaagg ccctgaacga gctgaaggcc aaggcaggcc ataagggtgc 240
gctgggagga tctgtttctca agaagagcgg taagaaatga ggcattgccac ccatctcgaa 300
taccagaaa atgataatct atctatctac ctatctgtga cgcgcttcac tatctgtggc 360
tgtgacagac taccttcagt tgtgttgagc attgtgcaat cgaccactat gtcgcttaaa 420
cctatggcat gtcagcagcc tcttatggta tctatgatac agaaggaccg agctaaaatg 480
acatgac 487

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<210> 874
 <211> 456
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189006b02b1

<400> 874

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atagttctca gtcctcaca ttctaccata caatcctctt catccttcac aaggaaccgc 60
catgggtctg tccgcgaagg tcttcgtggc cctcctgctg ctgctcgtcg ccacggagga 120
gcagggggga tcggtgcagg tggctctggc gagggattgc aagtcggata gccacaagtt 180
ccatggggcg tgcttcagcg acaccaactg cgcgaacgtc tgccagaccg agggcttcac 240
ccgcggaag tgcgacggca tccactgcc a ctgcatcaag gactgctaga tgcctagata 300
gccctggcta gttgtttctc gcgtactaga tgcattgatt catgtgatat tagctgaacg 360
atggtagatc tattatatgt ctatgtgcgt atgcgtgcgt tgatctgcga gtgctgggtcc 420
tcggagattg catgaatgaa taaggggaat tgcac 456

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CCG31360

<210> 875
<211> 471
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl1189006b04b1

<400> 875

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gcacacggcc acctccaagc cgcccgtcga cgacccgcgc caccagaagc agcgctctgcg 120
ccggcgccgc ggctgcctct gctgcgcgtg cctggccgtc accctcgtcc tcatcgccgt 180
cgtgctcctg atcctcttcc tcaccgtgct ccgcgtgcgg gacccgacga cgcggtcgt 240
ctccacgcgc ctcatcgagg tggccccgcg cctcaccttc ccggcgctca gcatccagct 300
caacgtcacc ctctcatca cgggtgtccgt gcacaacccc aaccggcct ctttctcctt 360
ccccacgggc ggccacacgg acctcaccta ccgcggcgcc cagtcggcg acgccgagat 420
cgaccccggc cgcgtccnca gtaaggggga cgcgacgtg aagctggcgc t 471

<210> 876
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006b05b1

<400> 876

ccgaggttcg agtgggagct cttctagagg tcgggacggg cccgcccacc cgccacatgc 60
gtgtggccac acgttcattg gctcgatcag cctcgtctcg gtcattggcg gcgtcaactg 120
tcacattgtt ccttcttct ctctccattc tttccttcca tctttgtttt ttctctttcg 180
agtgtatatt gatctcctca aaaaaggcaa cagctccagt gatatgattg tgcccagcga 240
ctcccaaadc ccacgaaga agatacacac actcatgatc tctatgatg catcggtgt 300
gctatgctgc aaataagtgg tggccttatg ttgatgaagg ttcggaattt ccacggcgaa 360
tttgtgtata gtattgtacg gtgtacatca aatcatcaat ttaccattat atgtgcc 417

<210> 877

<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006b07b1

<400> 877

cccacgtttc cggttgaga gagcgcgcg gagatggcag cctccatgat cacctcgccg 60
attgtggcgc cgacgagcct gccgtccctc tcccgccggg gctcctcctt cgccgtcgtc 120
tgcagcgggtg gcaagaagat caaggctgac aagcccctcg gactcggagg cggcttgaca 180
gtcgacatcg acgccaacgg caggaaggtc ggcaagaagg gcgtgtacca gtttgttgac 240
aagtacggcg ccaacgtcga cggctacagc ccaatctaca cgccggagga atggtctgaa 300
tatggtgacc gctacgccgg cggaacgacc gggcttctta tctgggccga caccctcgtc 360
ggactgctcg gcggcggcgt tctgctcgtc tacaacacca gcgctctcgc cggctaagag 420
agcatctacg tgtaacac 438

<210> 878
<211> 88
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006b08b1

<400> 878

cggacgcgtg ggcgttcgcg tggaatcaa gctattacac atttgatcat gttcatgtat 60
ggtatcaaat caagatgttt tactgcac 88

<210> 879
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006b09b1

<400> 879

ctctgtatca gtcacttcag gctctggctg atcacggtag cactagcttc agctagccac 60
tccaggcatt ttcttgcatc cacgacggca atggccaccg ctgatgtgca aaaccatcg 120
gccgcgctga cggaggaggc gccgcgggtg gagacgccg tcgccgctga ggaggctcgc 180

aagacggagg aggtccccgc gccggcggag accgaggtcg aggcgcctgc tgcccccgtc 240
gaggtcgtgg agaccaagga ggaggcaccg gccgccgccg agacggagga tgccaaggag 300
gccgagccag cagctgcggc cgagccggag gccgagggcg ccaaagagac agaggcgcca 360
gccgtggtcg agacagagac caaagaggcc gtggctgagg caaagccggc ggc 413

<210> 880
<211> 484
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl189006b11b1

<400> 880

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gcccggtac ggtccgatgc tcaccggcct cattgtcggc gccaacacca ttgccggtgg 120
caacttctcc ggcgttcca tgaaccccg ctaggtccttc ggtcccgctg tggccatggg 180
agtgtggacc aaccactggg tctactgggt cggccactg gtcggcgggc ccctcgccgg 240
gttcgtctat gagacagtgt tcatggtgac gaagacgcat gagcctctgc ttggttggga 300
cttttagaaa agcatgttgc tcgcatactt gcatttatat tttgcgatgt ataccagtgt 360
gtgtaaggca atagatgttg ctgtagatt ttccaggaca agtgattcta gctaggggtg 420
caaatgggtt ttagggagg tactacaatg gctgggtttt tttttggtgg ngggngggg 480
gggg 484

<210> 881
<211> 155
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006b12b1

<400> 881

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acaaggcggg gcagttcgag gtggccgccg ggcagtccgg cgagggtgc agctgcggcg 120
acaactgcaa gtgcaacccc tgcaactgtt aagct 155

<210> 882
 <211> 368
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189006c01b1

<400> 882

gcacgcccgc cttgtcatgg tcgccttcct cggattcgcc gtgcaggccg ccgccaccgg 60
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 cgacaccttg ggctcctctt aagcggtcgg tgggcgagca atttctgtca gctcggctgc 180
 aaaatggacg aacgcgcgtc cgagtaacga acgtgctttt cgatttgtat atgaccagtg 240
 atggatgaga gggatatcaca aagatccttt gatgagtaat gcaggtctga tcacatagga 300
 gagctgctgg gacttggtga tttgtaaaat atgaaccaat ggtgacttaa tgcatgcact 360
 tgtacatc 368

<210> 883
 <211> 86
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189006c03b1

<400> 883

cccattcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgtcgccc cagcggtccg 60
 cccacgcgtc cggttctaga tcgcga 86

<210> 884
 <211> 454
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189006c04b1

<400> 884

caacatctcc cccgggtact acgatggtcg atactggaca atgtggaagc tgcctatggt 60
 cgggtgcacc gacgccacac aggtgctcaa cgaggtggag gaggtcaaga aggagtaccc 120
 tgacgcctat gtccgcgtca tcggcttcga caacctgcgc caggtgcagt gcgtcagctt 180
 catgccttc aggccaccgg gttgcgagga gtctggcaag gcctaaacta cgagttgaaa 240

caatggccta tgtatgaagg tcttttgtga acttaacttt tgtccaccac tctgctggac 300
gaccagagca tatttttcat tctatatggt ctgtgtgtgt atgtacgaac ataggttctc 360
gagcatgcat atgtaaattc tagaaccggc tacacatata caaaacctgt gtgatattta 420
ttatatacaa acacgcggaac cattgtcttg ctgt 454

<210> 885
<211> 433
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006c05b1

<400> 885

ggaagaaggg cgctccccgt cgattgccaa taggattctg tgggtttgct gtcaacagca 60
caatgctccg ggatcctcaa aggttagaac cgcccaacta tggattctgc tatagtgcaa 120
tctggtggca gaggtggtct gtagcgagtc acgatttgac ctgatgtttg gtaaaaacga 180
gcgtaaaata aaaagcctta cagacaactg atgacggatc atggtctgga acttccccct 240
ggaacctccc cagctgaaat acccctgtcc gatggccact gaggcaccac cttgtacatg 300
aaaagacctg cgacatagag atcctgccac cggaagtcct gtgttccatg caagacgttt 360
ctcttggcga gccatacgga aagatgatta accttgcggt gacacagaag ttactgatat 420
aaacttggcg atg 433

<210> 886
<211> 180
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006c06b1

<400> 886

gaagggctcta gggtagctag ggtttatgat gtctcgttgt ttttgcacgc tagcaagtga 60
ctccgggatg ccagttttta gatttcgctt gtgttgaaag atattattat tattactgct 120
tgtagcctac ctgggatacc gtcataatgt gctgattatg gaaccccttt tatcctgctt 180

<210> 887
<211> 137

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006c07b1

<400> 887

aaatttttat gtttttcaaa tgaggagtgc taccggggaa taaatccagg aagaggtggc 60
ggcttgacag ggagtttagg acctttttgc ttgcattctc gtgtcttttg gcaaggagaa 120
aattatcatt tggaggg 137

<210> 888
<211> 329
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006c08b1

<400> 888

cataacttccc cctaattctcc accccaccca cagactgact cgcagcacac ctaccacgcg 60
cagcgcgcag agcgagatcg agatggcgac ggagctgacg gtggtgcagc tgcgggcgta 120
cgacggcacc gacgcgttca agccgatcta cgtcgccatc cgcggcaagg tctttgacgt 180
ataggccggg cgcggcttct acgggcccgg cggcgactac gcgctcttcg cggggcgcca 240
ggcgcgtccgc gcgctcgcca agatgtccaa ggacgccgtc gacgtctccg gtgaccttat 300
ccggcccttt cgacaaggag ctgggcgtt 329

<210> 889
<211> 361
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006c09b1

<400> 889

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gcgggggggtt tattgaattc agccaccgtc ctgcgaggag aacggaaagg gctaaactgt 120
tctgtcacca cggtcatttt atatagtgcc attgcggttt tgtcaactct gacattgctt 180
tgggttttcc ttcttcattt atctgtgttg catgctccta tttttatgcg tatgtccatg 240
ttgatgtaac gacatgtatc gagaaagcct gctcgaatgc taatgcaatg ggtgggtatg 300

tctatgcgca tgcgcatcat atatttatac aatgtgtggg gtatgtattc gggtaactaa 360
t 361

<210> 890
<211> 329
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006c11b1

<400> 890

cggggctgtg caccgtgcag gtgaaccacg gcgtcaccgt ggtggggtac ggcgagacca 60
gcgccgccgg cgacgagggg tccgggaagt actggatcat caagaactcg tggggggcgg 120
ggtggggcga ggccgggtac atgcgtctgc agcgcgacgc cggcatgccc accgggctgt 180
gcggagtctc tctgctcgcg agctaccggg tcatgtgatt cattctgcca ggtcatgtac 240
gtagtaataa gtagactcat gcatggagca tttgtgaagt gtaagaagat agcgagtata 300
aaaatacgaa tatctataca tcagtgtgt 329

<210> 891
<211> 159
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006d01b1

<400> 891

cccattcgtc cgggggctgc aagctgcagt tgacaggagt tgttgtatgc gtcgattaat 60
tgtcacttag tcaatctttt caattatctg tgttttgaga ttgtactgag tcgaggagga 120
taaggagtaa ctcttgacat tagtgtgaag tattttggc 159

<210> 892
<211> 443
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006d06b1

<400> 892

gcagttcgag gcttagcaac caaagctaca atcctgacga tgaagtggct gtcccaccat 60

ttggtgagcg gtatgaggcg aacgctgaat caggcgaaaa gtatacgggt atctttaaca 120
 ggggtgagga tgataaacta tgcgccgact cttctgccag gcagcattca tctggcaatc 180
 gcaaagacga aaataagggtg caacagacat gtccttgctg catactttga caagatgggg 240
 atacaatcac agagagttct gataaacgtc ctgggatact tgtggaacaa attgtcgttc 300
 ttgtgaagaa tttggcacca aactatatat tcatgtatac ttttcaatgc tcattagaca 360
 ttactattgg cgtgggtgtg gacctatgat tgcacgacg tacaatttat gctatatgct 420
 tatttgaac atatatatga tgc 443

<210> 893
 <211> 475
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl189006d07b1

<400> 893

acggacgggt cgtacggatt ccacctccac ggacggaacg ctggtcgtca gccagccaga 60
 ccgtcttgtg gtcaccagta catctctgta cgaacgtcgc ttgttcttgg acgcccttgc 120
 gaggcactcg cacatttgtc ctctgccgac gtgccatggg acatgcggta atttgagcct 180
 gaagtaaadc aaaagcaagc gtccggggcg gaacacagcg caaaagggtcg aggatgacga 240
 cgaacatgtc gaacatgtcg tacgtggaca ccattctccg tctaccgcc tgcgcgctgt 300
 tgacgtaccc gacgcgcgcc cggcggggac acgcgctgga ggagcctccc gcgcggcacg 360
 ggccggcgcg gagatccaag cccgtgagga tttccagag catgttccgg tctctgtcgg 420
 acgtgacgga gccacgctgc ggnnggattt tgacaccagc cccgaccggc gcaaa 475

<210> 894
 <211> 384
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189006d08b1

<400> 894

acggagctgt acccgcggtt ttcggggccg acaccttggc gtgcgacgag gggatgcgcc 60

aggcgatcga ggtcatgaac ggccaggacc tggacgggcg caacatcacc aggaacgagg 120
 cccacaccca ccgctcccga ggtagcgggtg gccgtttcag cggtggaagc ggtggcagtt 180
 acagcgggtca tcgctctgag ggcagcggcg ggggctactg tggcagtagt tgtagctaca 240
 ggggtggccg cctacgtggc tgaggagggt acggcagcca tgaaggccgc tgcggctacg 300
 gcggatacgc acgccgtac agtggaagac gcgaggcgcc ggcggtggaa actggaggga 360
 gagaatggtg ggccccctcg ctgg 384

<210> 895
 <211> 389
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189006d09b1

<400> 895
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 ccaacgacga caccaccacc gaagccacct ggtgctgcac cggccgccgc tctctcaacc 120
 tgaggagcta cccccctgc ttctaggcat tggaggacaa cgagggcccg gccccggccc 180
 cgggcaagac cgacgaggcg gacgtggagc tgcacaggaa gaaacggctg ctggactaca 240
 aggtgtacga cgtggagggc aaggtgaagg ggtcgggtcg gcgcagagtc aagcggatca 300
 acggaaagtg ctcccgacgc acgtctacgg gtggtgacga gccggcgatc cgtccatgca 360
 ggatggtctg cctacgtgtg ctgccggtg 389

<210> 896
 <211> 340
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189006d10b1

<400> 896
 ggaccataca tccctgtgtc tggcatgaat tggtagatgt gataaagtgg acgtttcaat 60
 tggatacacg cctgctacaa atcagatcgt tatttgtaa ggcatatgat gagctcttgt 120
 aatcctaate tactaccac atgttacagc tgatgttatt atagaattag tactgtgcct 180
 aagagatagt actctggtga gaagcaggca acacgtaata tgtgtgtcat ttgagaaaaa 240

tgaaacttcc aactttccaa ctgttcattg tatatgtaca ttggaaacac actatcttag 300
 acaaatagat gattcagcag gatcaatgaa cgctcgcttt 340

<210> 897
 <211> 224
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189006d11b1
 <400> 897

ggcggttacg gacgtcctag gggcggagcc tggcggaggg aggagtcgcg cggaggaaga 60
 ccacactgac gctgaatcgg tattttcaaa tttggggtag tttggtcatt tcatcaagtt 120
 tcacctggtc ggaaataata cccaacgac aaataaatag gaacggaggg agtacatccg 180
 tatgtttttc gtattaaaca aaaataaaca ttgctgaaaa taca 224

<210> 898
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189006e01b1
 <400> 898

cccattcgtc cgggacaatg tggaagctgc ctatgttcgg gtgcaccgac gccacacagg 60
 tgctcaacga ggtggaggag gtcaagaagg agtaccctga cgcctatgtc cgcgtcatcg 120
 gcttcgacaa cctgcgccag gtgcagtgcg tcagcttcat cgccttcagg ccaccggggtt 180
 gcgaggagtc tggcaaggcc taaactacga gttgaaacaa tggcctatgt atgaaggctct 240
 tttgtgaact taacttttgt ccaccactct gctggacgac cagagcatat ttttcattct 300
 atatggtctg tgtgtgtatg tacgaacata ggttctcgag catgcatatg taaattctag 360
 aaccggctac acatatacaa aacctgtgtg atatttatta tatacaaaca cgcgaccat 420
 tgtcttgctg ttattaatt 439

<210> 899
 <211> 475
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl1189006e03b1

<400> 899

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agctagctac agacccatag taaaaacaat aatagagcaa ctgagcacac caggacacag 120
tcggttaagt actgtgacag ggagctaggt tcagttcacc acaaacgcct catctccaag 180
ccgagcacct cgccatgagc acggacgcgg acgccgtgcc ggtggccgtg gcgccggcga 240
agcgccctcc catcaacaag tacgccttcg cctgcgccct cctcgctcc atgaactccg 300
tcctcctcgg atacgacatc tcggtgatga gcggcgcgca gctgttcatt aaggaggacc 360
tgaagatcac ggacacgcag atcgagatcc tggccggcat catcagcatc tactccctcc 420
tgggctcgct catggcgng ctcacgtncg actggctggg gcggcgctac accat 475

<210> 900

<211> 431

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006e04b1

<400> 900

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accgccatgg acgtcgtcta cgcgctcaag cgtcaggggc gcaccctcta cggattcggc 180
ggctgacctg cggccgctgc tccaatctcc aatctccatc gactctgact ctgctagctg 240
ctgttctggt gctatggttt cgtttctgag tgcgtgcgtt gttgggtccat cggctctgtg 300
agttagtgga aggcatgga tctgaatgca gtcagttcgt cagagtgcgt ctgttgatct 360
atcggctctt gtagtcagtt cctcagtgga aggcatgaa tatgaatgca atggggctcgt 420
tggttctttc t 431

<210> 901

<211> 137

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006e05b1

<400> 901

tcgcacatac agagaaaaag tgaccttgcc tcggccgccc gacgacccctt gcctgacgca 60
acagccatcc atctatccgt tgatctgttc atctcacaag agcatgcccc catggtgcgc 120
ctgttctacc tgtgtgt 137

<210> 902

<211> 413

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006e06b1

<400> 902

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cttcgacaat gaacatcttg aaccagccca tcagccccgg cggcgccac gcggccttcc 120
cggccgccgc cgccgccaag gacggcggca tgccggcgtc gctccgcttc gacgtcggcc 180
ccagcaccgc ccaccgcgcc ccgaggcggc agacgcagac gctgcttcgg gccagcagca 240
gtagctacgt cggcgccggg cacgccgacg aggccgccgt catcaagagc gcggagcagc 300
agaagggggc cgtggtgccg ccgttccagc cggtgacgct caacttcctg cgctcgctgc 360
tggacagga cagcatgacg tccatcgccg aggagggcgg cgagggcgcg ggc 413

<210> 903

<211> 192

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006e07b1

<400> 903

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aggcgtgata cttgtcttga aactactgtt tgagttacta tctgagtcac aacctcatgg 120
atgatgtaat ggatagatgc atcgggcggg ggaatagact gtttaatgaa ttgtgtcgtg 180
aatcatggaa tc 192

<210> 904

<211> 454

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006e08b1

<400> 904

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agcccaagga ggagaacgtg acgctcggcc ccgccgtccg cgagggggag cacgtcttcg 120
gcgtcgcgca catcttcgcc tccttcaacg acaccttcat ccatgtcacg gatctgtccg 180
ggagggagac gctcgtccgc atcaccggtg gcatgaaggt caaagctgat cgtgatgaat 240
catcccccta tgcagctatg cttgcatctc aagatgttgc tgtaagatgt aaggagcttg 300
gaattactgc tctgcacatt aagctccgtg ctactggtgg aaacaagaca aaaactccag 360
gtcctggtgc tcaagctgcg cttagagctc ttgcacgttc tggcatgaag attggacgca 420
ttgaggatgt taccgccgtc cccactgaca gcac 454

<210> 905
<211> 456
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006e10b1

<400> 905

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gcattgatgg acgccgccgt ggagcgctc aagaccgggt tcgagaagtt caagaccgag 180
gtctacgaca agaagcccga tttcttcgag cccctcaagg ccggccaggc gcccaagtac 240
atggtgttcg cgtgcgccga ctgcggtgtg tgcccatcgg tcaccctggg cctggagccc 300
ggcgaggcct tcaccatccg caacatcgcc aacatgggtc cctcctactg caagaacaag 360
tacgccggtg ttggatcggc catcgaatac gccgtctgtg ctctcaaggt tgaggtcatc 420
gtggtgattg gccacagccg ctgcggtgga atcaag 456

<210> 906
<211> 514
<212> DNA
<213> Triticum aestivum

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 aaaaaaaaaa aaaaaaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaattgg gggggccctt ttaaggaaaa aaaattttcc ctccctgggt ggccaaagaa 240
 aacctttttt ttagggggaa caaaaaaaaa ataacggggc ctatttataa aaacggggga 300
 gcggaaaaaa acctgggggc cccaaataaa ttgcttttgg aaaaaaacct tttttcccaa 360
 gttggg 366

<210> 911
 <211> 513
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189006f06b1
 <400> 911

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 tcggagcaga ggctctccct tcaccttcgt cttcctccct ctcggcagtt cgacctttgc 120
 atggcagcag tggctagctc caagggggcg gtgatcgctg ggagcctcgt ggcgcgcgtc 180
 ctcgccggca aggccaacgc ctccccgagg agggcggtgc acgcgtcggc ctacgacaag 240
 aacgtggacg agcaggtgcg cccggccttc gtgccggacg atgtgatcgg cggcgccggg 300
 agcccagaca agtactgggg cctcaccaca accaccggcg tcttcggccc cgccgcggtc 360
 gacccaagc tggccgncag cctcgcgccg gccagcgccg ccaagggcgg cccctccgtg 420
 ctggaccaga aggtgtgggt cgcggcgctc gaggacgtcg agaagcccc cgctccgtga 480
 tcgccggcga cgaccagtcg accatagccc agc 513

<210> 912
 <211> 477
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189006f07b1
 <400> 912

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agaagatctc gatgcctgcc catctcatgt acgatggtga ggacaacaac ctattcgagc 120
acttcagctc ggtcgcgcag cggccttgggg tctacacggc gaaagactac gccgacatcc 180
ttgagttctt ggtccagagg tggaaagttg cagatctcac tggactgtcc ggtgaaggaa 240
gacggtcgca ggactatggt tgcactttgg caacgagatt caggcggctg gatgaaagag 300
cgcaggcaag ggcgaaacag gggcctgtgg ttccattcag ctgggtctac gaccgtaaag 360
tgcagctcta ataaagagga aggaacacaa ggttaatgag actgcatcca tcctattatt 420
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<210> 913
<211> 461
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189006f08b1
<400> 913

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attttccacc acccaccga cgccttcgcc ccgtccactg tcgccaccga cgtcgccggt 180
ccaatcgctg acctctcctg cgagcgctcg gccgtggtcg gcgcggtgag ggccgcggcg 240
gagacggtgg gcttcttcct gctggcgaac cacggcgtgc cggaggcggc catgtcgggg 300
atgctggcgg cgggtcgggc cttcaacgag gagccggcgg aggccaaagg gccgtactac 360
acgcggggcg cggccaggcg cgtgcgctac agctgcaacg cggacctctt ccagacgctg 420
gtgggcaagt ggcgcgacac cgtgtacatg gacgacgcgg a 461

<210> 914
<211> 463
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189006f09b1
<400> 914

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cgcccaccgc tcccaggtgc tccgctgcct gcgcgacctc gccgtcgcca aggccaagct 120
caaggagctc aggtccctct tctacaacct ctctacagg cgccgcctct cgcacgacca 180
cgaggagcgc cagaggttct ccgagaagat cattgtcctg ctctcactg tcgatgcgct 240
cgagggacct gacttcatgg tgaggacggc gaagaaatct atgctggagg aactggagag 300
catgctggag attgtggacc cgcagccacc aggggaagcag aggtcgttta gccgccgcaa 360
gttcgatctt ccagagggcg gagcgattcc gaacgagaaa actgcaggcg tgaacaatgc 420
tgtcagggtc atcaaacactg gcaagggcaa gcagtaggca cta 463

<210> 915
<211> 484
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006f10b1

<400> 915

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ccgcgctcct cctcgtcgcc ctggccgctg cgccgttggc caatgccaaag aaggccgcca 180
aggaggagaa ggccttcgac gccccctcgg ccgacgcgcc ggccgtcgac tcacccgcgg 240
aggggccctc cgatggaccg gcggctgccc ccgggcctga gggcatcgtc ggctctctgc 300
ccgacaacga cgacaacgac gacaagtga cccgagtga tgcccttttg aaggatccgt 360
tcgatgctga tcagatcgtc cgcatggatt ttagtttcga gacaataata atactactac 420
gtataggcct gttgccctgc taggaggatg ccgtcgtaat tcaaattttt ggttttccgt 480
cttt 484

<210> 916
<211> 177
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006f11b1

<400> 916

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cagcctgcc a tttctgttgt tgagacagcg tgggtgttttg gttctacagt atgatattag 120
 caatgagtcg ctgtacatat tattgtgagt tggaagatca tatcatgtgg tttctcc 177

<210> 917
 <211> 505
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006g01b1

<400> 917

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 cgccggacca gcagcggctg atcttcgccg ggaagcagct ggaggacggg cgcacgctgg 180
 ccgactacaa catccagaag gagtcgacgc tgcacctcgt gctccgcctc cgcgggggca 240
 tcacgcagcc ctcgctccag gccctcgccc gcaagtacaa ccaggagaag atgatctgcc 300
 gcaagtgcta cgccaggctg catccaaggg ctgtcaactg ccgcaagaag aagtgtggcc 360
 acagcaacca gctgaggccc aagaagaaga tcaagaacta gagctcgtaa aaccgttatt 420
 gccgctttca ttgtctggat aaatctgtag acataaaatg tttctgggta tcaatttgct 480
 gctcatgtca ggatgatgaa ccttg 505

<210> 918
 <211> 260
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006g02b1

<400> 918

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 aataaaaaaa taacaagtta agctaaaaag attaaaaaat gaaccaacaa catatgcgac 120
 tgaatggaga ccttctttgc ccatgaaaat gaaaatTTTT gcttgctgta ccaaggtgat 180
 cgggggggtgt gggttataat agtaccatat aaactcattg tgctacaaca agaatttgt 240
 gtagtgatgg tgtaatacac 260

<210> 919

<211> 296
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006g04b1

<400> 919

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accgctctcg acttcatgcc cgccgagaag gccccccaag ccggcaccgt cgccatcgat 120
aacaatgccg ccggtgccgc cgtgccggtg cagcagcagc acaggagact ggaggggaag 180
gtggccatcg tcacgggcgg ggccgcggg atcggggagg cgatcgtgcg cgcgttcgtc 240
cggcacggcg cgccgctggt gatcgccgac atcgacgacg cggccgggga ggcgct 296

<210> 920
<211> 237
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006g05b1

<400> 920

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gtccatgttc atgtacgaac atggctcgag aaagcatgct cgtatgtgaa tgctatcggt 120
ggctatgtat atgcacggac gcataatatt atacaatatg ttgactatat acgttctaata 180
ggtaaccagc ataacaaaca aatgaaaaag aaccaagaga tggaacttaa acatgaa 237

<210> 921
<211> 147
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189006g06b1

<400> 921

tcgaatcccg tggcttatct ttacatccat ttcattttgc ttgcaagttc atgaaactgt 60
aaactcaatt gatggtttgt agcgtgtata tcccctgctg ctatggcagc ttgaactgca 120
ttttgggaac atgacgattc caatatt 147

<210> 922

<211> 132
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006g07b1

<400> 922

tcgctggctg gccgactgcg gtgtgctacc ggcgatgaga tccaggagga ggtggcgcg 60
gacagggagt cgaggacctt tttgcttgca ttctcgtgtc ttttggcaag gagaaaatta 120
tcatttggag gg 132

<210> 923
<211> 372
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006g08b1

<400> 923

tcggttctta cacattctta ttcttatatt ttcattctta tcctttgcat aggtgaagtg 60
cgaatcaaag tccgaagctg tgaagcatat caacaagtag tagcatatta tgtgttgtaa 120
ttgtaggcag tagtaggcat atctggcttg tagtatactg taatgattat aatagactaa 180
tgtattgttg ttttggatca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaatggt cgtctattta aggggggcgg gttttaaaagg 300
acttcaaatt tacgaacgcg tgcttgctaa gggtaacttt tttataatgg cccgcaaatt 360
tatttcactg gc 372

<210> 924
<211> 466
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006g10b1

<400> 924

tcgcgaacac gagcaccaag gcgatggcga ctgctctcaa ccgcggcctc cgctccggga 60
tccgcctcct cgccaccggc gccgaggcct ccaagccagc ttcacgtgga ttccatgcta 120
ccggtgtgaa gaggatgtca gggcatggcc atgatgagcc atactacctc cacgccaagc 180

acatgtacaa cttgcacagg atgaagcatc agaagctgac tgcattggact tcggtgctgg 240
 gagctgtaag cattggtgtc ggtgtcccgg tcttcgcggt cgtcttccag caaaagaaga 300
 cctcctcggg ctgagcttac atgccccctc cctgggccta cttggttgat ctattttgaa 360
 tttagcattt tgtgaagcca aagctgtcac ttcaccttac tcttggtgtt tcgtgttact 420
 ccatttgctg ttagcagatg atctgaatct taagctcggt tcttta 466

<210> 925
 <211> 272
 <212> DNA
 <213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189006g11b1

<400> 925

tcgccgctgt cgacctctga aactgaaagc gccgtcgaga agatctgcga ggtgtgggtg 60
 ctggtgagcg gcgcccggga tgagctccag aggcaggagg agactgtcct gtacaagcgt 120
 ccactttttt tttttttgag ataagtacaa acgtccacgt gagcatatgt gactgtctaa 180
 ggctggttta agaagtcttg tacatttggt gtatgttttt tttaggatca aacactccat 240
 tttattcaaa caccacaagt cgttcaatac at 272

<210> 926
 <211> 346
 <212> DNA
 <213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189006g12b1

<400> 926

tcgagtaaat atgccaccgg agatgaagtc caaatggcag atgtgttttt ggcgccccag 60
 atccacgctg gtgtgacacg cttccaaatc gatatgtcaa agtaccctat tttggcaagg 120
 cttcaagatg cttacaatga gcatcctgca tttcaagccg cacttcttgc gaaccaacca 180
 gatgctctc catcccagtg aagtaatcag gaccttgatg actgtaagat ttttcatggt 240
 tgatcgagat tctatgatgt aacttcaaag tcagatgttc atgtaagcaa agacccttgg 300
 atgagcttga cgatgttgct gtaaaagtga ataaatgcaa tttatc 346

<210> 927

<211> 410
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189006h01b1

 <400> 927

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 tgtcttttgt tcaatgaagt tgaccgtttc accgccaggg atcaaattag cttcagcacc 120
 gtccgggaca aaataagggc taaagtcggc tggatgcccc agatgttcct ggactgcgaa 180
 aggcgcaact ttgttggtcca ggcataccac agggagctgc tagagcagat gattgcgtcc 240
 ggcaggaaca cgctccgat cgcggtcgaa ccatctcgga aaatcagacc aggtagcagc 300
 aggagagctc ccccgtcgaa gaagcctgtc gtgaggcgga aaaaggagaa gaaatcagc 360
 tcgcggaggc gggccgcgaa gccggttacc tgggcgatgg atgctgggtg 410

<210> 928
 <211> 263
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189006h02b1

 <400> 928

 tcgggctatt gtgcggagat cgtggggcgg ctgggctaga tcgctgcgcg gtacgaggcg 60
 atggaccggc gggcgccgtg ggaggcacta atgagaaagc cgcacgcggg tagctgagac 120
 cacgcagcgt acgcggcggc aagggaagca agactaacgg gcgcaggggt cgcggagagc 180
 gaagtgcgcc aatggaggcg gtcgttaccg acgcacttaa cggactgtca tcaactgcagt 240
 ggccaacggc accgagacta ctc 263

<210> 929
 <211> 245
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189006h04b1

 <400> 929

 tcgaaattta taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaataaaaa ataatttaag agagaaaaaa ataaataaaa gtttgttgtc acgtaaaatt 120
 atttttattg aggtgtcttt agtggttgcaa cttattaact ggtttgcct gtgtttatgc 180
 aaaattattt ggggtggcgtc ttttattact ttttttattt aatttggttt atataacatt 240
 ttttaa 245

<210> 930
 <211> 374
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl1189006h05b1
 <400> 930

tcgagacatc tctgaaggaa tcagagagga tagagaagga gattgctgaa ttgaaagaga 60
 tgaagaaaaa gatcagcaca atgacagcag acgagtactt tgcgaagcac cctgaactca 120
 agaagaagtt tgatgatgag atccgtaacg attactgggg atactagata acggcgaaag 180
 tccaagttct tttactagaa cattcaataa tacttatttg tccctctgga atctcatcat 240
 ccatacttgg gtgaattcca taacatgtgg actgggcttg ttgaaattcc aacataactc 300
 ttatctttgt gctttctggt ggacctcatc attttaaggg ttgccagctt atttcaatga 360
 aattttgtct cttt 374

<210> 931
 <211> 275
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl1189006h06b1
 <400> 931

gagatcttct ccaactctat tctaataaac ccctcgccgc cgccgccgcc gcagatcgca 60
 ccaccgaccg accgaagcga tggccgcctc caccgtcgcg tacagggccg tggccgtcct 120
 cgccgtcctg tcggtcgccg ccctctccgt cgtctccgcy caggaggccc cggcgccgag 180
 ccccggtgcy gccgcggcg cagcggcgcc gtcctcgcc gcagcgctcy tcgcctccgg 240
 cgccggcttc ctcttcgccg ccgtccgcca ctgaa 275

<210> 932

<211> 460
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl1189006h07b1

<400> 932

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tcgcacacat tcgcggccga gggagcgagc agcgccggcc gccccgcggc accgccggtt 60
gctctcgctt cccgctccgc agcaccgccg gtagctctcg cctcccgcctc cgaggcaccg 120
ccggtagctc tcgcctcacg tcccgcggaa ccgccggtag ctctcgctc ccgctgatac 180
aatggccaac gccgcggtcg accccgagcg caaaaggctc cggttgacgt cgtccatgtc 240
gtccatgtcg tccgtggaca ccattctccg tctcccgccc tcgcccgtgt tgacgtcccc 300
gacgcgcgcc ccggcgggac acgcgctgga ggagcctccc gcgcggcaca ggccggcgcg 360
gagatccaag cccgtgagga ttttccagag catgttccgg tctctgccgg tcgtgacggt 420
gccgcgctgc gnggggattc tgacgccagc cccgaccggc 460
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<210> 933
 <211> 374
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006h08b1

<400> 933

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cttcatcgcc ttcaagccac cgggctgcga ggagtccggc aaggcctaaa cagctcactc 120
accacgggcc acatataaag tgccattgcy gttttgtcaa ctctgacatt gctttggggtt 180
ttccttctcc atttatcttt cttgtttgtt cctaagaata tgtgtatgtc catgttcatg 240
taccaacatg tctcgagaaa gcatgctcgt atgtgaatgc aatcgggtggc tatgtatatg 300
cacatgcaca taatatatct atacaatctg tcgactatgt attcgggtaa ttaataatga 360
gaaacatctt tggc 374
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<210> 934
 <211> 479
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl1189006h09b1

<400> 934

agcaaagcca gaagcaccac aacctcgtat tctagatttc cagatagaca gggtcagatt 60
aaccagacga tgatgcaggc tgccgttgct tcgtcggccg tgctgcctgt cgccgtaagg 120
ggtaggccgg cggcgaggag gaggagcgcc accgttgccg gtggcagaag gattgtgggt 180
gccggcgctcc gggcatcggc cgccggcgccg ccggaggcgg actacagctc caacgtctcg 240
gtgttcccca tggaggcctg cgacctggtc ggccggcgagg cgtgcgacgc gcagatgtac 300
ccggagacga agctcggcgc cggcaccggc ggccccgctg ccgctgtcgc aagggcgccg 360
gaggtggaga gggagtacct agcctacgac gagccaaaaa cgggtgtccc agacgaggcg 420
tgcgacgatc ttgggggcga gttctgcgag gcaccctacc aaaccagcan gtaactaac 479

<210> 935

<211> 342

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl1189006h10b1

<400> 935

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caagcatgct acaaatcaaa tagttatttg ataaggcatt tgatgagctc ctgtaattct 120
aatctacttc ccacatttta cagctgatgt tatttagtaa tctgtagtga gcctaagaaa 180
tagtactatg gggagaagca ggcaacacgt aatatgtgtg tcatttgaga aaaatgaaac 240
ttccaacttt ccaactgttc attgcatatt acatgtaaaa gacactatct tagacaaata 300
gatgattcac caggttcaat gaaagttagc ttnnntnnnn na 342

<210> 936

<211> 61

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189006h11b1

<400> 936

cgagaagaag caccaccact

500

<210> 939
<211> 524
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl189007a03b1

<400> 939

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cgcgagcagc ttcaggggga gctgcgacga aaagggtggcg gctgtgcggc cggtgccgtt 120
ctccgaggac gcggtggtct tcgaactgcg cgacggcccg ttggcggagc tgcggcgtgc 180
ggcggagggt cgcgggcgggt gggagtgggc gcggatcatc ggcacgcccg ccagcgcctg 240
catgacaagc tactggacgg ccgtcgccac gtagccggcg gcgcgggtgg gaaggaagcg 300
ggcggaagcg cggagctgga actctatttc aacggcatac gcgcaagata cgagttgaat 360
gctcaactac tttacctacc tgattagtcg tggctaactg acacctgtgt ataaaaaaaa 420
cagaggctac ctatgtagta caaagcacia tagtacgtga tcaagttttc ttgtacatct 480
ctagcggatc ccgtanaccg ggccatccga caaaataact agga 524

<210> 940
<211> 539
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007b01b1

<400> 940

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cctccctggg caagaaggcg gcgagcgccg cggtcgccgt ggcggccagc gcgatgctgc 180
tgggcgggtc ggcgatggcg caggacgtgc tcctgggcgc caacggcggc gtgctggtgt 240
tcgagcccaa cgaattcagc gtcaagtccg gcgagaccat caccttcaag aacaacgccg 300
ggttccccga caacgtggtg ttcgacgagg acgccgtgcc gtccggcgtg gacgtctcca 360

agatctccca ggaggagtag ctcaacgccc caggcgagac cttctcagtc acgctcaccg 420
 tccccggcac ctacggcttc tactgcgagc cgcaccgccg ggccggcatg gtcggaaagg 480
 tcaccgtcaa ctaagctatc ttctagtagc tccctgtcct gtccttgaga aattgggtc 539

<210> 941
 <211> 450
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189007b02b1

<400> 941

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 gcggtaacgc cggaggcatg caccaccacc gcacacctt cgacaagtag catcccggt 120
 acttcggcaa ggtcggtagt cgtacttcc acaagctcag caacagggtc tacacaccga 180
 cgggtcaacgt cgagaggctc tgggtccatg ttccgtccga caaggcggcg gaggccggcg 240
 gcgacaaggc ccccgtaggt gacgtctcgc agttcggcta cttcaagggt ctcggcaagg 300
 ggatgctgcc ggagaagccc atcgtcgtca aggccaagct catctccaag atcgccgaaa 360
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 gtgccccgag atctatatct gaactattag 450

<210> 942
 <211> 436
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189007c02b1

<400> 942

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 ggaggttgtg aagccccctca agtttgacaa ggcctctgct tgagagggtg gtatgaagga 120
 gtctaatac tctgtctgct gccgctgggt gttgtatctt ggataattga attccttctc 180
 tttagaagga agcagggttt caacatcgcc gtggacacgc tgaattggca tctagtgtt 240
 ggtattttgg tatggcatat aaaaatatgt gctgagttaa tactagtcgg gtcttttgat 300
 gtcttctgtg ctttcttttt gctttttgag tctactgaaa ccgcagtact tgtgcgggtt 360

cctctatcgg tcgtccagct attttttagt actgcatctg taaaaccata tgtgataccta 420
gtaccctggt cattcc 436

<210> 943
<211> 516
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189007c03b1

<400> 943

cccactcgtc cgggttctag agtagcaaat acaaaagcca tagccatggc gaaactcatg 60
tgcttatggt tcatcatcct cactattgcg gtagtcgtgt cggctgacga atgtgaggggt 120
gaccgacagg aaatgatcaa gcagtgtgca aagtatcaac aatggccagc aaatccaaag 180
gtaaattccgt cggacgcatg ttgcgccttg tggcaaaagg caaacatgcc atgcctttgc 240
gctggtgtca ccaaggagaa agagaagata tggcgtatgg acacggttgc ctacgttgcc 300
aatttctgca agaagccgtt cccacatggc tacaagtgcg gaagttacac attccctcct 360
ctggcgtagt gactctagtt taccgcggg aggagaagtg ttggctatta aattccatgt 420
gcctagcctc aaaatacctt tcctttcaga tctgtagtga agctgtgctc agaacagatt 480
atgtctagca ctttgtatga gaacgtttat gaaact 516

<210> 944
<211> 384
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl189007d01b1

<400> 944

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cgtctaggca tgatccgtgt cgtatgtttg ggtgattgag aatgcaggct catatgcttc 180
gcttcggggg gtgtgtgtgc cacattttaa tctgtcattt gcgctcctgg gacacgatgt 240
gtgttttggg gacttcccca atatgagaca tgtggcaggt gcaatcgcct gacttgctag 300
gcaaactctg ctcttgccgg gagegccttc ctgggcgggc ttttctcttt ttttttaagt 360

gtcgaagttc aaaagggccc cccc

384

<210> 945
<211> 502
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189007e01b1

<400> 945

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cgacatcaac tacgtcgtcg acggcagggg cctgcgcccc gtagcggtcg tccgggacgg 120
cgcgctccggc agggcgatgg agctgtgggc ggaccagccc ggggtgcagt tctacacggc 180
caacgggctc agcgggggtga gggggaaggg tggcaaggtc tacggccact acggcgcgct 240
ctgcctggag acgcaggggt tccccgacgc cgtgaaccgc ccgagcttcc cgtcgcagat 300
cgttcggccg gggaaggtgt acaagcatga catggtgttc aagttctcct tctagtaact 360
actagctggt ggtatccaag gtcccgtggt tggtcgtttg tcaggcaaca cagccactct 420
tgtgtttggt gtactggtgt gaattgatcg gctgagcttc aaggggagga ataaaagcat 480
gttgctggtt caaggttttt tc 502

<210> 946
<211> 529
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl1189007e03b1

<400> 946

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aaacgacagc ctgtcagagg tggagctccg gcagcacggc tcagaggagt ggcagccctt 180
gaccaagaag ggcgacgtgt gggaggtctc gtgctccaag ccgctggttg gcccttcaa 240
cttcgccttc ttgtccaaga atggcatgaa gaacgtcttc gacgaggtct tctccaccga 300
tttcaagatc ggcaaacct accaaccgga atattgatcc acaccggcac tgacaccgg 360

ccaagtttca gttgatcaaa atcgctcctaa ttaattaaca cccatgtatg agtcgcgtag 420
gaaatatgtg cctgcatgag tggatagcta gtgaataaat ttaatttttg atgcacatag 480
atatggtagg agaagcaaca acnggatgtg ttgctcttcc atgcatgca 529

<210> 947
<211> 417
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189007f01b1
<400> 947

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acgccggccg ccgtgccgtc gagctgcac aggagaagcg acgtctgagc cgccgtcgtg 180
ccaatggtgt ggcggagaga actgcgctcc gcatgcgctg tggccgaata tgatgccggc 240
ctgcgtggcg gaccgtgggtg ctctacgga gggaggagcg atgctgacgc tatgtggtcg 300
tcgtcgttgt acacagccgt gcctgcggaa gccgtgggtg ccgcctcaac acatccgcat 360
gcagggagaa aaggtatgag gagatgggac aaacggacga tgtacaggat ccaagct 417

<210> 948
<211> 478
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189007f02b1
<400> 948

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aagaggaaaa cagaattggt tatggcccta attgagaaga agttgcttcc tctccgtcca 120
ggtgttcaaa ggttaattga tgaagctcta ggaaaagggg tgaaagttgc agtatgcagt 180
acttcaaacy agaaagctgt ttcagcaata gtatcgtgct tactggggcc cgaccgagca 240
gaaaagatta ccatatttgc tggggatgtg gttcctcgca aaaaacctga tccggcaatc 300
tacttgctag cagcaactac attggaagtt gatccatcta gctgtgttgt tgttgaagac 360
agtaacatag ggctttcagc ggccaaagct gctggtatga agtgcattgt aacaaaaagc 420

gggtacaccg ccgacgagga cttcgtgata gcggacgccg tgttcgattg catcggcg 478

<210> 949
<211> 100
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189007f03b1

<400> 949

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acgatgtatt ttcagacgaa cacggttttg ttccactctc 100

<210> 950
<211> 56
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189007g01b1

<400> 950

tcgatttgta tatgtttgtg cgggagtaaa ttaaaattac ttgttcattt cctggc 56

<210> 951
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189007g02b1

<400> 951

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cgccggccgc cgcgcggtcc ttggcctcat ggccagcggg gtcgtcggga gcgcgttcgc 180

tcaggtggtg cacgccggca cgtcgcggc catcaagggtt ggccccccgc cgccgctctc 240

cgggtggactc cccggaacgg acaactcgga cgaggcaagg gacttcgacc tgcccctgaa 300

gaaccggttc tacctgcagc cgctgccacc ggcggaggcg gcggtgcggg ccaaggagtc 360

ggcccaggac atcctcaacc tcaagccgct catcgacaag aagcaatggc cgtacgtcat 420

gaacgacc 428

<210> 952
 <211> 504
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl1189007g03b1

<400> 952

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 cgtccaaggg tcttcttggtg tttgtctctcc tgcttgctgc atctatcctc gtcgcctcaa 120
 ctgaacaaac tcaggccaag aaggaggaga agaaagccgg cgtagagggc taccctggag 180
 gcggcgggggg aggctaccca gaccacgctg gaggaggagg aggcggcggc taccctggac 240
 acgggtggagg aggaggaggc ggcggtacc ctggacacgg tggaggagggt ggcgcgggct 300
 accctggaca cgggtggagga ggaggcggtg ggtacccggg tcacggtgga ggaggcggcg 360
 gcggctaccc gggccacggt ggtggcgggcg gtggcgggcta cccaggcggt ggcgcgggcg 420
 gctaccccggt acatggcggt ggcgggcgcg gtggctaccc cggacaccgc tgangcggag 480
 gccgcagtgg atgtcactgg ggct 504

<210> 953
 <211> 317
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189007h01b1

<400> 953

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 tcagctggta gatgtccagg ggtcggggtc caagtagact gcctgaattg ctcgggtagg 120
 catgatccat gaagcaagaa tcgctgattg agaaggcagg ctcatatgct ttgattcgtg 180
 agatgtatgt gccacatctt catctgtaat ttgcactcct ggcacatgat gtgtgaaaag 240
 gggacaaaac caataagaga catgtaacat gtacaattgc ctgagttgcg aaataatcaa 300
 accccttggc gggaaca 317

<210> 954
 <211> 547

<223> Clone ID: uC-tsfl1189008a12b1

<400> 956

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ctgcgcgctc gtcggcatga acggcgacct gatgagccag tacatcgagt tcgtcgccga 120
ccgcctgctc atggcgctgg gctgcaagaa gctgtacaac gccaccaacc cgttcgactg 180
gatggagctc atctccctgc agggcaagac caacttcttc gagaagcgcg tgggcgagta 240
ccagaaggcg tccgtcatgt ccaacctcaa cggcggcgcc gcgaccagc acgtcttcag 300
catcgacgag gacttctgat cagtccgatg ataatatgca atctccatta ccaatggctc 360
gctcgctcgc tcgccccccg cgtttggttg ctcttagta ctagtagtag tagcggtgat 420
acatgtgtgc tgggtgctcc acaatgtttt tatttactgg tatttcgctg gctcttattg 480
gtgatgtact g 491

<210> 957

<211> 514

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl1189008b11b1

<400> 957

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ttccaggagg tggactactg ctccgaggag gtgagggcgg tgggcaaccc ggcccgcgcg 120
ggctgcggcg gcgtgcagga gcacatcgtc agggagacgt tcgtgcagga gttcgacacc 180
gccggccgcc gccacggcca ccacggcgcc ggctccggcc acttcgaggt gcgcgagagc 240
aggctcgagg aggacgtcaa caccgcacc ggcgagttcc acgagcgcaa ggagaacttc 300
gtcgtcaggg ccgatgactg agcttacacg taacggagca cactaccatg tgtgtatatg 360
tcagcagcat atgtatgtgt gatgttgccg acagtcgtat agcgtatgca tgcgtgcgtg 420
cttggcggn c atcagcccct atcgcgcgcg cgtgcagcgc ttaaataagc gctctaactg 480
tgaaccagaa taaagcttct cgtgatatta ttnc 514

<210> 958

<211> 372

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189008b12b1
 <400> 958
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 aaggatctgg cgctgacggt catgtcggcc atgggggagg agcagatctg cgcagtcaag 120
 gacgtgggcc ccaggtaact tcctcggagc gagggccaag ataaacggag ggatccatta 180
 tctgtcaaat ttaagctaaa gaaagacaaa agtattaaag aaggaatgct atcgagtgag 240
 acattcacct aagccggagt caagtgcagt gattgctggg tntagcatat ctgcttacct 300
 ctacctatca tccgtgacat ttgggaccct tgtaatatat cctatggttt tatatatgtg 360
 cttggtgtca at 372

<210> 959
 <211> 476
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189008c10b1
 <400> 959
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 tccccgaagc cagccggggc gccgcagtgc ctatcgtttc cccgcgccgc cgccaggccc 120
 tcccgccctg ccgccgccgg ctcgaggacg gccagggccc gcagcttcgt cggccgcgcc 180
 gcagccgagt acgacctgcc gctggtgggg aacaaggcgc cggacttcgc ggccgaggcc 240
 gtgttcgacc aggagttcat ccacgtcaag ctatctgatt acattgggaa gaagtatgtg 300
 attcttttct tctaccctct ggacttcacc ttcgtctgcc caactgagat tacggctttc 360
 agcgacagac atgaggagtt tgagaagata aacactgaaa ttcttggtgt ttcagttgat 420
 agtgtgtttt cccatcttgc atgggtgcag acagagagga aatctggtgg acttgg 476

<210> 960
 <211> 298
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189008d10b1

<400> 960

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aaggaacgac ccgaaaaaag ggggccgggt ttcttgcggt gtcaccgaac cttagcgcg 120
tggtgcttgg gttaccaacc ttttgctggg gggccccctg acttacaccg cggctactgg 180
gaacaccctg attcccctaa tttcgggggt tccacactta tctgggtggg acccatggcc 240
cttttcccag gggcgcggtc tgaccgccgt tccgtacgcc ccccttttct gaacgtta 298

<210> 961

<211> 466

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189008d11b1

<400> 961

cggtaggttc cccggcgact acgggtggga caccgcgggg ctgtcgggcg accccgagac 60
cttcgccaag aaccgggagc tggaggtgat cactgcccg tgggccatgc tgggcgcgct 120
cggctgcgtc ttccccgagc tgctcgcccg caacggcgctc aagttcggcg aggccgtgtg 180
gttcaaggcc ggctcccaga tcttcagcga gggcgggcctc gactacctcg gcaaccccag 240
cctgggtccac gcgcagagca tcctcgccat ctgggcctgc caggctcgtgc tcatgggcgc 300
cgctcagggg taccgcgtcg ccggcgggcc gctcggcgag atcgctcgacc cgctctaccc 360
cggcggcagc ttcgaccccc tgggccttgc cgacgacct gaggcgttcg cggagctcaa 420
ggtgaaggag atcaagaacg gccgcctcgc catgttcttc atgttc 466

<210> 962

<211> 478

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189008d12b1

<400> 962

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cctgttgcg 60
cctgttgcg ataaagtatt gggctacca aaagcagatt cattacatct ggagtacagt 120
tctatggctt gcacagttga gatagttgat gatgtacaat cagcaattga ccatatacat 180

cgctatggaa gtgcacatac agactgtgtg gtcactacag atgataaagt agcagagacc 240
 tttctacgtc aagttgatag tgctgccgta ttatacaacg cgagtacaag attctccgat 300
 ggtgctcgtt ttggactcgg tgctgaggtt ggcataagta caggccgtat acatgcacgt 360
 ggacctgtgg gtgttgaagg tcttttaact acacgatggc tcttacgagg gaaagggcaa 420
 gtggtgaatg gtgacaagga tgttgagtac acccataaga gcctttcttt gcaatgag 478

<210> 963
 <211> 315
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008e10b1

<400> 963

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 tgaaaggcac aatgaggaag aggatggagt tcctagactt cgattagcgt ccatccatta 120
 gtcagtcatg ttgattgata gttggtgctc cttttgtggc cgctggtttt taatggcggc 180
 atttgctatg tttgtgggca atggaagctc ctgattgcac tgtgtcttat acttgttcag 240
 ccctaataatgat gctctggacc gaggggctct tcctcagtag caatgtacca gccctgtatt 300
 cttatcttct gttgc 315

<210> 964
 <211> 470
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189008e12b1

<400> 964

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 acgtatgtca acatgggctc catcgccacc gcgggcgttc tcgactggag gtaccagaag 120
 gcgacagggg agaagaggcc ggacaaggtg accggattga tcagcgcgga gcaggccaag 180
 gaggccgagc gcagggaggc cgaggagcgc aaggcggagg aggaggaggc cggggccgcc 240
 tgggccaaga acaagcacgt gtatcagttc tgatcgatcg ccgccgggcg ccgcgcccgg 300
 ccgtgcatct cgcggcagat ggtgttctga acggaaaaag ttcgcgagag atgatggtgt 360

gcatgtatcc accgctcacc gtcacttgga gattcgtgct acgttttctt gttttgtaaa 420
agcttgtctt gttcagagtg ttgcatgatg tttctctttt taaaaatatt 470

<210> 965
<211> 513
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008f10b1

<400> 965

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gcggaggatc cggcaaagca tcgccgagga gtaccctctc ctccaacctat tgctggagga 120
catgcttccg aagaagtcgc cgatgattgt tgttaaatgc caaaatcatc tcaatcttgt 180
ggagggtgaac aatgtccac tcttcttcaa catccgcgat ggtccataca tgccaaccct 240
gcgccttctt catcagtatc ctaacatcat gaagaagttc caagtggaca gaggtgctat 300
caagtttggt ctctctggtg ccaacataat gtgccctgga ctcacatcgc ctggtggtgt 360
gttggaacat gaagtcgagg aggaacgcc agtggctata atggctgaag gcaagcaaca 420
cgcatggcg attggattca caaagatgtc agcgaaagac ataagcacca tcaacaaagg 480
aattggagtt gacaacatgc actatttgaa tga 513

<210> 966
<211> 118
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008f11b1

<400> 966

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ggcgcgcgcg ggtgtcctgt tctggatagg ggagggccag ctgaaagaag aatccgcc 118

<210> 967
<211> 400
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008f12b1

<400> 967

cttacgcgtg ggcggggagg tcccgcgggt tcggcttcgt cacgttcggc agcgaggagt 60
cgatgcgcca ggccatcgag gagatgaacg gcaaggagct cgacgggcgc aacatcaccg 120
tcaacgaggc ccagtccccgc cgctcgggcg gagggggcg cggcggcggc ggctacagcg 180
gccagcgct cggtggcgga ggctacggcg gaggaggacg ctacggtggc cgcggcagct 240
accgatgcga gcggaggcta ctgatgtagt ggcggtacg gcggccagcc cggcggcggc 300
cagcgccac tccggcggtc agtggaggaa ctgagactag aatttcccag ttatcgacta 360
tttaccgctg cgctcgctatc gacgcatggt tcttcagcaa 400

<210> 968

<211> 373

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008g12b1

<400> 968

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ttcgagaacc tgcagcagca cctggccgac ccatggcaca acaccatcat ccagaccatc 120
tccggccaat aaatccgtcg atttcaccga ccggggaggt ttcaggcggt ctgaattggt 180
atatttgggt gctgaggatg tacaaagtgt ggaggagtag gtggacagtg caaaaatgtg 240
ttgtaatctt aaagctccgg tgggtgaaact ttgttcttgt ggattcgccc atggcttcta 300
atggaggctg tacttgtaat atcacccatg cgtgttattt taaacatggc aaaacatact 360
actagtttga agc 373

<210> 969

<211> 520

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008h10b1

<400> 969

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ggccatccgg gagtgggccc gcggggagca cctgtacgag cagatggtgc ggcgcgcgcg 120

cgccgcgacc gagtgcggcg agatcgaggc cgtgttgtgg taccaggggg agagcgatgc 180
agagtccgat gccgaaacgg cggcgtacca ggggaacgtg gagaggctga tagcaaatat 240
cagggcagat cttgggatgc cgcacttacc attcattcag gttgctctcg catctgggaa 300
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aactgtggat gcaattgggtc tgcccttgaa cgaagataat ctgcatctta ccaactgaagc 420
acacgtaaag cttggagaaa gttttgcaca aacctacatc agtaactttt tacaagcaac 480
ccgctatgag acccggaat gttatgatag ggcttgtcca 520

<210> 970
<211> 495
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189008h11b1

<400> 970

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catggcgccg tatcatccca cgtcagggct cttcgtgggc atcaacaagg gccacgtcgt 120
caccaagcgc gagctgccgt ctcgaccgta cgaccgtaag gggaaaggta caaagagggt 180
gcattttgac aggaacttga tcagggaggg tgctggattt gctccctatg agaagcgtat 240
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tggttctcac aagagagcta agcagaagag agaggagatg tcaagtgtcc ttaggaagat 360
gaggtctgct ggtggcggcg ctggtgacaa gaagaaatag aactgggcta gctggtgaat 420
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ttgacactat cttta 495

<210> 971
<211> 133
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl189008h12b1

<400> 971

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tatggtagg gagcatttgc gtgattggag atgtgtgttt ttcgatttgt ctatttgtac 120
cgcaactgtn gcg 133

<210> 972
<211> 490
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl1189009a02b1

<400> 972

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tgcttcaacg gagatgagac ccagagagtt tttttgctgg aatgaaattt cttcatgagg 120
tgcggtggcg aggcattttt ttttgtgctg taatttgtgc tttttgctgg aaccatgttt 180
tgattttgct acaacgagca tttgattttg ctggaaccgc ctgaagcaga tttgggacca 240
gttttttttag taactgattt ttgctgcaac catccaaccg gcgagcgggc cgggccggtg 300
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cggccaccga gctgcaatcg tcgctacatg gagctagaac cgcaggggtca cgttgctggc 420
gcgaaacgca ggaggcgacg tcggcgaccg gtgacgacga cngcgacggg cggcgagggc 480
agcgacaggg 490

<210> 973
<211> 230
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009a03b1

<400> 973

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agggtgcttg ctgttgctgc ctctgccctc ccttattgaa tcatgttgta tctgaacttc 180
agattcagaa gcctgtaata attgtcatgt tgtaatgctg ttgctgcctc 230

<210> 974
 <211> 623
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009a04b1

<400> 974

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aattaaaaaa atatatatta tattttatat atatatagaa tttatttttt ttttttggtta  120
aaattttttt tctttttgta tttttttggt gtaattttat ttttttggtt gtgttttttt  180
attttttttt gcttttttgg tgtttttatt tatgtttggt tttttttttt tcgtgttggt  240
attctatttt tttgttttgt gttgtatatt ttttagtttt tttttttttt ctatttttgt  300
gtttttcttt tttatgtttt tttttttttt tatttttttt gtgtctcttt atttttttct  360
ttttttttat tttttatttt ttttttttcc cttttttttg tgattttttt ttttcttggt  420
tttctttttt ttcgtttttt tttttttttt tgttattttt atttttcttt gtgtgttttt  480
ttgttttttg tgttattttt atgtttggtt tttgtatttt ttgattgtgt tattatgttt  540
tattctattt aatttttatg tttgtttctc tggttgtttt ttttctcttt ttttatatga  600
ttttatcttt tgagttttat ttt                                     623
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<210> 975
 <211> 456
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009b01b1

<400> 975

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tccacagcaa ggaggttacc ctccacagca aggatacccg cctgcacctg gagcttaccc  120
acctgcacct ggggcatacc ctgctgcacc tggggcgtag cctcctgcac ctggagcggg  180
aggccctgac ggggagaagg ggctcctcta caacatcatg catggtgttg ccagcgctca  240
tggaggtggt catggctacc catctggggg ccacgggtac cccccgcagc agcatggata  300
ccctcagcaa ggctaccctc ctacgcatgg ctaccaccg cagcagcatg gctaccctac  360
acagcagcat ggctaccccc ctgctggcta ccctgggtca tctggtcaca gtggttagcca  420
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tggaagagga ggcattgggca tgggtggcat gctggc

456

<210> 976
<211> 183
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009b02b1

<400> 976

gggtttgcaa ggaaggatcg atagagctga gacgaggtga attgagcaat gtggctttgg 60
ttgtatgacc ttagaaataa gctgcagctg tatgtaaagt gccgtggaaa tgctggcggc 120
gcgtgtgttt tctgaagttt gcaagttgta acgaaagttg cagcaataaa aatgggtttt 180
cgt 183

<210> 977
<211> 499
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189009b03b1

<400> 977

gtgggggttcg gcagcagcgt ggcgcccggtg gcgccggcgt cgtcgacggc ggggaggacg 60
agccttcgcc cgcagcggac gcggctggcg gtgccggcgg cgacgagggg cagcccggt 120
ccggccaaga aggagaagag catcctggac ttcacgtca gcgccatcgt caaggacgag 180
caggagtcca tcgagaccaa cccgctgctc aacaaggtgg acggcccggc gccctccgcc 240
ggcggcaccg cctccaggaa ggccggcggc accaccgccg gcaagaagcc cgcggccgac 300
agcgagggcg gcggcggggt caacctcggc ggcctcttcg ccaagaaagg ctaggctgaa 360
ccagcccgcc taatacgtag gcgcgcgctt ggggtgcgtgc ttcgatctca tagctcgatt 420
tattgctgta actccatgaa aaacatcgca gagatctgca tatatgtacg tacacgcggt 480
gtgactactc aaacgattc 499

<210> 978
<211> 485
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009b04b1

<400> 978

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ctcccgctccc gtccccagcc aacctcccat ccccgctctcg cgtcgcagcg gcagttccac   60
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gtcgccaggg tcgccctcca gagcgacgat gtcgagctcg tcgccgtcaa cgacctctt  180
atcaccaccg agtacatgac ctacatgttc aagtacgaca ccgttcacgg cactggaag  240
cacagtgaca tcaagctcaa ggacgacaag acgctgctct ttggcgagaa gccagttacc  300
gtcttcggcg tcaggaaccc tgaggagatc ccgtggggtg aggctgggtc cgattacgtt  360
gtggagtcca ccggtgtctt cactgacaag gacaaggccg ctgctcactt gaaggggtgt  420
gccagaagg tggatcatctc tgccccaagc aaagatgccc ctatgtttgt ggttgggtgc  480
aatga                                           485

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<210> 979
 <211> 332
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl189009b06b1

<400> 979

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ggtgctgacg cctgcccagt gccggaaggt caaggaagtt ggtgcctact gataaggaaa   60
ggtctctagt aatatatagt tggatcaccg ttgttttagtc gatggatatg tcgatgcagc  120
ggtgacaaat aaagtgtcac acaacgtcgt gtgtgaccg cccaaactag ttgtttaaat  180
tctgaaataa aatacaaata aagttgtatc aagacaatgt tcatattgnc aaaaaaaaaa  240
aaaaataaaa aataaaatta aaataaagat taaaattaaa aaaaatttaa aatttatgat  300
tctctcatat aaaacccatt catcctaatt ac                                           332

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<210> 980
 <211> 326
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189009c02b1

<400> 980

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ataatgctaa taaaataatc ataaaaaaaa taaagaacga acaaatgaaa aaaaaatggt 120
cctttctagc cattgtatta tattaaaaaa aggggggggc gcttttttaa ggaccaaggt 180
ttccttcctt gggttggcga actattgttt ttttattggg gccctaaat ttaattacct 240
ggggctggtt ttacaaacgg ctgaactgga aaaaccttgg gattacccaa ataaataggt 300
tgggaaagaa tccccttttc acaacg 326

<210> 981

<211> 193

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009c03b1

<400> 981

ggttcccag cccgcagctg cggccgagcc ggaggccgag gcgccagccg tggtcgagac 60
agagaccaag gaggccgtgg ctgaggcaga gccggcggtg gtcgaggagg tgaaggagga 120
ggcggcgcct gctgccgagc cggaggttgc ggccgtcgcc gaggaagcac cggctgctgc 180
ggaggaggca ccc 193

<210> 982

<211> 419

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009c04b1

<400> 982

gtagatctt cccgccctgc tccacgtgct gctccagtga gaaaccacc agcgcagcc 60
cgtcaagctc ctccacctgc tactaccag agcagcgggtg gtggtatcat gagcggaatt 120
gggtccacta ttgctcaggg catggctttt ggtactggca gtgctatggc gcacagggct 180
gttgatgctg tgatgggtcc ccgtaccatt cagcatgaga ctgttgtcgg tgaggctgct 240
gcatctatga ctccaatgga caacgctgct gatgacaagt gtggcaacct ttccaaggcc 300
ttccaagatt gcatcaacca ctacggcagc gacatcagca agtgccagtt ctacctgac 360

atgctgaacg agtgccggcg tggaggagca ggagctgggtg caactcttta agctactat 419

<210> 983

<211> 53

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009c05b1

<400> 983

ccttaaaccg acacaggtga atatgtaaga atgaaagatt tacctaatta act 53

<210> 984

<211> 283

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009c06b1

<400> 984

ccatatgctg ctgcaccgca acgatgcggc gtgccaggcc aaggggttct acaactacgg 60

cgcctttgta gccgccgcca actcgttctc gggcttcgcg accacgggtg gcgccgacgt 120

caggaagcgc gaggtggccg cgttcctcgc tcagacctcc cacgagacca ccggcgggtg 180

gccaacggcg cccgacggcc cctactcgtg gggctactgc ttcaaccagg agcgcggcgc 240

cgcctccgac tactgctcgc cgaactcaca gtggccgtgc gcg 283

<210> 985

<211> 293

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009d03b1

<400> 985

gtgcagcgcc tcatagtgtg cccccaccac caccaacgct aactcacao gctaacctca 60

ccatttcagg aagcatatga gcagcgaaag cttgggcaag aactccaaga tcatgggtgg 120

ccgtgaaaga aaagaagtta atagcaccgc aaagcatttt gttgatttca cagaagcaga 180

ggaagatctt gttttcagaa tgcacaggct tgtcgggaac aggtgggaac ttatagctgg 240

aagaatcccc ggaagaacag cagaagaagt agagatgttc tgggcaaaaa ggc 293

<210> 986
 <211> 272
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189009d05b1

 <400> 986

 agtttatcaa cggcgacccg ttcacgga gcttgagac gcccgtcacc tccagccccc 60
 tcgtcgcgtg gtacctctcc aacctccccg cgtaccgcac gcccgtcagc ccgctcctcc 120
 gcggcatcga ggtcggcctc gcccacggct atctcctcgt cggcccttc gcgctcaccg 180
 gcccgctccg caacacgcca attcacggcc aggcgggaac cctcggcgcc atcggcctcg 240
 tctccatcct cagcgtctgc ctcaccatgt ac 272

<210> 987
 <211> 252
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189009d06b1

 <400> 987

 atatataaaa ctaacaaaaa aaaaaaaaaa aaaaaggaaa aattgttaaa aaattcttgt 60
 tgtcttatcc gcattagaca aaatgaagta aaaaataatt caaaatttaa gtatctttca 120
 gtatctaagt ctaaatacta ataaaaagaa gaaagaagga ttgatttgca gcaatagatg 180
 tctttcacat acaactagaa aaaagtaatt tcctttttga atggcagttc caaaaaaacg 240
 tacttcaatg tc 252

<210> 988
 <211> 462
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189009e02b1

 <400> 988

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 agacataaat gaaaaaatga gaagcagtgg gtcgactccg gtaaacactga tgaagaactg 120

ataaaaagag aggagaaaaag gataagagaa ttctttgagt tccttgatga tgctgaattt 180
 ttggagaata tgcgctgcaa acgtcttaat tatccacgga aacatgaaat acatctccag 240
 tcggatgaag aaattgcccc tgattcagat gaagagtgaag gatgtccctg cctattatca 300
 cctgttttca tttatcagta gattgaactc agtggagctt tcgagtattt gaacttgta 360
 ccaagttaaa cactcgactt aatcttagct attatgacgt ttgtgtgtaa tgtcatatgt 420
 gaacaaggct ggaaggcttc tccaatttct tttgtgttgc tt 462

<210> 989
 <211> 323
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189009e03b1

<400> 989

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 ctgtctcttt atcactgcat gatgggttca actatcctcc tggtcctggg taattagctg 120
 catattattg taactattaa tcggtgcaca cgagttatcc tacttgcttg cttgggttagt 180
 ttcaaaaaaa ccaacccgat gctcaacaag gaggacagac cggcgccctt cgccggcgag 240
 accgactcca agaaaagccg gcggcaccac ccccggaag aaaccacat acaacagggc 300
 ggccgtttta aagaacaaaa ctt 323

<210> 990
 <211> 495
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189009e05b1

<400> 990

cttatttttg tctctcgga ctcttcgggc aagaacaaac acggatgaac acacaaaatg 60
 tgggtggggtc atatggatat atagctcctg aatatctata cagaggtgaa atctccacaa 120
 agtcggacat atacagttta ggtgtactaa tccttgagac caccacaaga gaggagaatt 180
 gccgcgggag cgaaccatct gcaggacaat ttattaaaaa ggtacgtgaa aactggacag 240
 aggagaacat cgtatcagag taccatcat taaaagcaga ttgcctccga caagtaaaaa 300

aatgcatcga aattggactg caatgtgttg agactgatcg gcagaagaga cctaccatag 360
aggcaattat cgaccagctc aatggacgac atactaattg agctacaagg tcatactgat 420
ctccagtctt catggagaat aaaatttggg tcttcttcag gagacatgtg caagagggaa 480
ttgacatctt actta 495

<210> 991
<211> 415
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189009f01b1
<400> 991

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ttcgaatggt atcactccaa tccttgctgc atatatgaac aaagatacag ttcacccgag 120
gttcttgctt acagttgatg atggctctgc aggcacccgt tctccattac ttctgcacct 180
ggagatgatt acctgagcgt gcataccgc acgctagggtg actggacatc tgaactcaag 240
aacttgttcg ggaagtgttt cgaggcacia gttacttcca agaaggccac cctttcgaga 300
cttgaaacta cagttgtggc agactctgcg acagaagaca ccaggtttcc taaggctctc 360
atcgatggcc cttatggtgc accggcgcaa aattacaaga aatacgacat tcttt 415

<210> 992
<211> 322
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: uC-tsfl189009f02b1
<400> 992

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ctggtgaggt gcaaggccaa ctccgaggcc accctcggca cctacaaggg cgacgccacc 120
ctcgtgagg gcgcctccga gagcctccac gtcaaggact acaagtactg attgatctgc 180
cttcggtgct gtggcccgtt tgggcgtccc gcttaccagt atcattgtca ttgtttggtt 240
tcctgagtcc tgatatatcc tcggatatcg aacatcgttt ttaataatat ggaacttggtg 300
ttttcatann nnaaaaaann aa 322

<210> 995
 <211> 457
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189009f06b1

 <400> 995

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 cagaccaact tgggtgcccta cccgaggatc cacttcatgc tttcctccta tgccccagtg 120
 atctcagctg agaaggccta ccatgagcag ctgtctgttg ctgagatcac caacagcgcc 180
 tttgagcctt catctatgat ggccaagtgt gacccccgcc acggcaagta catggcctgc 240
 tgtctcatgt accgtggtga tgttggtccc aaggatgtca acgctgctgt ggccaccatc 300
 aagaccaagc gcactatcca gtttggtgac tggtgcccca ctggcttcaa gtgtggtatc 360
 aactaccagc caccaggtgt tgtcccagge ggtgacctg ccaaggtcca gagggctgtg 420
 tgcattgatct tcaactccac cagtgtcgtc gaggtct 457

<210> 996
 <211> 376
 <212> DNA
 <213> *Triticum aestivum*

 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189009g03b1

 <400> 996

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 tccatagcaa tggctggcac tggcagcacc tggctcctgc tggagcagaa gggagctggg 120
 ccgggagcaa ggagctccca cgccatcacc ctgctcggcg gcacggccta ctcttcggc 180
 ggagagttca ccccgcgctt tcccgtggac aacaccatgt acgccttcga cctcaaggcg 240
 cagtctggtt ccgccctcac ggggcccggc aggtgcccc gccacgcgtc ggcgtcacca 300
 tggcctccgt cggcgccacn ggtgtcgtgt tcgccggccg cgacaaggac cacacggagc 360
 tcaacgagct cttact 376

<210> 997
 <211> 419

<212> DNA
 <213> *Triticum aestivum*

 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl1189009g04b1

 <400> 997

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 cctgtcgcct ccagagcaac agcagctcca gctcgagcaa gaaacaagtg tagtactagt 120
 ttgatctgtg aacatgttgg ccattcttcca gaagcaggtg gcgcacgcgc cgcaggagct 180
 caacagcccc cgcggcagca ccgccaagcc caagaacccc gacgagatcc tccgcgactt 240
 ccacgccgcc caccctccg acgccttctc cacctccttc ggcgggcgcg ccgccctcgc 300
 ctgcgtcgcc gcgcagcccc gcaacctcgc cgnccgncggc taccagagga tgttctgcgg 360
 gcttggacga catctactgc gtcttcatgg gcacgtgga caacctgagc gcgcttatg 419

<210> 998
 <211> 379
 <212> DNA
 <213> *Triticum aestivum*

 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl1189009g05b1

 <400> 998

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 ctcaaggagc agagagaccg ccgcagcgag agcatggcca agaggaggct gaagctgtct 120
 gctgccacca aggctcctgc tgctctgcc taagatgttt acagtcttcc gttattagct 180
 gtaatagtgg aagaatttct cgcactttgt tggatgatat gaatctagct gctactttca 240
 gcgttggtga gttgtaattg atgcttggtt gcgtgaacat gggtaacctta atcgtcagga 300
 agttgttact gaatgaacaa aattgcatga acttgatta ttgatgcaag ttttgtgtga 360
 aaanaaaaaa nnntaannt 379

<210> 999
 <211> 398
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189009h03b1

<400> 999

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ccgtgttctg ggggctccta gtattcatgc tcgtggcgac aacaatggcg gtcgagtatg 120
gtgcaaggag ccataacagt ggtccttga gttggtgcga tccggcgacg ggctacaagg 180
tgagcgact cacgggctgc cgggcaatgg tgaagctcca gtgtgtgggc agtcaggtgc 240
ccgaggctgt cctaagagat tgctgccagc agctcgccga catcaacaac gagtgggtgca 300
ggtgcgggga cctcagcagc atgttgcgca atgtgtatta cgaaactcgc gtgcgtgagg 360
gaaaggagtg ctcccaggtt gccgaaggag gtgatgaa 398

<210> 1000

<211> 52

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009h04b1

<400> 1000

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<210> 1001

<211> 299

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189009h06b1

<400> 1001

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aacgtgagcc tgtctacctt cgcgcccacg gccaggggag acgtcctcgc gaggccgcag 120
gtggccgccc cccgcgtcac cttcccagc ggcacccgag gcagcggcgc cctctcctgc 180
agggcgggcg ggccggccac gccgcccggc atctccgaca agatgtcggg cagcatcaag 240
gaggcccagg agacgtgctc ggaggacgcc gccagcgggg agtgcgcggc ggcgtggga 299

<210> 1002

<211> 459

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117a01b1

<400> 1002

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gtggctgagg cgcggaactg cgaggcgaag agccacaggt tcagggggcc ctgctgctgc  180
caccgcaact gcgccaactg ctgcaagacc gagggcttcc ccggcggcaa gtgccgcggc  240
ttccgccacc gctgcttctg caccaccac tgccgccagt gaccaaccta ttgcctctac  300
ttcgtccgta cgtccgccta gctgcagcct gcctgctgct atgctggctt gctcgcacct  360
ctgtgctgtg attgtagtac tgtgtccatg aataaacctc ggctgtctg tcatggcatg  420
ctgcgattgg tttaagaaac gcaggtcctc ttttacttt   459

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<210> 1003

<211> 399

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189117a02b1

<400> 1003

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tttttatgaa accgcacntt tgntcctcat tncngaggcn cctccatcng catctccatt   60
tccatctcca tgggtggggt caccaacaa tccgactaac gacaacatcg gcagcgacgg  120
cagggctcatg tcgcggtatg agcgccatgt tcaggccaac aacgctcgtg gtcctttctt  180
ggtggggggc taatcccatc cagcaggtg ctcttgctct tgtgggtctga gaagctgacg  240
aggagcttcg ccattgctat cccatctagt accaaccatg tatctatctt atctatctat  300
atttctaggt gatcctgtgg acatatatat gtgggattga tccgcctacc ctgatgctat  360
tgttgcgcac cgatgaagca atgtcattgt gagactgat   399

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<210> 1004

<211> 524

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189117a03b1

<400> 1004

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caccaccacc aacgagagca agctctgcct ctacggcctc tacaagcagg ccactgtcgg 180
ccccgtcaac accgcccgcc ctggcggcct ctttgatatg gccggcaagg ccaaattgga 240
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ggatgaagcag ctgctggagg aggtgcccgc cgcactctgt tgatcccagg ccacaaaacc 360
gcaatcgcta ttgttatcct ggtggtgcag ccatatgtgc cagcaaacac aaataagttt 420
caagtactag ttgttgtcaa gcttatcgcc gtcgtgggtg taattacgtt gaacaagccc 480
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<210> 1005

<211> 487

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117a04b1

<400> 1005

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cgtccatggc ggaggtagcg cccgtcgatc aggggaagaa ggaggaggag gagttcagca 120
cggggcccct ctccattctc atgctcagcg tcaagaacaa cactcaggtg cttatcaact 180
gcaggaacaa caagaagttg cttggtcgcg tgagggcatt tgatcgtcac tgcaacatgg 240
ttcttgagaa cgtcagggag atgtggactg aggttccaaa gactggtaaa ggcaagaaga 300
aggctctccc ggtgaacaag gacaggttca taagcaagat gttcctccgt ggggattcgg 360
tcatcatcgt cctcaggaac ccgaaatgag gttgacgact cggcgtaaac cagaagagtc 420
tgttttcgct atgcctgctg tagtttgtat gccgaatgct ctggatcagg gagtgtgtta 480
gagacag 487

<210> 1006

<211> 62

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117a05b1

<400> 1006

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ct 62

<210> 1007

<211> 408

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189117a07b1

<400> 1007

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ccggggcgcat cgtgatggag ctgtacaagg acgcgggtgcc gcggacgggtg gagaacttcc 120

gcgcgctctg caccggcgag aagggcgctcg gcaagagcgg caagccactg cactacaagg 180

gcagctcggt ccaccgcgtg atccccgact tcatgtgccca gggcgggcgac ttcaccaagg 240

gcaacggcac cggcgggcgag tccatctacg gcgagaagtt cgccgacgag aagttcgtcc 300

acaagcacac caagcccggg atcctctcca tggccaacgc gggccccaac accaacggnt 360

cccagttctt catcttgacc gtccccctgca attgggtcga cggcaagc 408

<210> 1008

<211> 63

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117a11b1

<400> 1008

ggctgctctt aaaggggtgca tgctatgcaa taacatgatt tcgctgcttt gtttttgtga 60

ttc 63

<210> 1009

<211> 432

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl189117b01b1

<400> 1009

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gtggaggatt tctaccagaa gcaggggaag gttctcgagt tcgatttacc tggaggaatc 120
cctgaatctt ggccaaagct gctcgatgtt ctgaatctcg aggaccagca ggagatgaag 180
ttggccgcgg cgtaagtcct gcccggtggga cataccttac atagtccaaa gcataccata 240
cattttttca ataatggaaa agggataaaa aactcttggt tccatagata tgtgtgcctt 300
tgtgagcgta attttttgac cactagcgag ctgtttattc ccgccggcgt tttcgcgagc 360
cggtgctatg taacgatcat aacgatattt tgatcttgac ttttttgagt gagcggtttg 420
tggtgcgtnn aa 432

<210> 1010
<211> 209
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl189117b02b1

<400> 1010

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gattagcctc ctctcctgtc accttccctt ctccagtga gagtatccat ccatccactt 120
gtgttggtcc tccgcgcant ttcgtcgtcc atgtactttg aactttgatt aattaattaa 180
tcaatcaatt gattggtggg gaagttttc 209

<210> 1011
<211> 238
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl189117b03b1

<400> 1011

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tagtcgcctt ggtcgttcta tcccctaccc gagtgtgatg catcgttatg ttcggttggt 120

tttgagaatt gctgctgttg tgaacagctt tgggtgaactt gataaataag tgagccctga 180
attgtgtcaa ctaaaaaaac aaggtaaaaa aagcccataa acaacaagaa aggcaaaa 238

<210> 1012
<211> 221
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117b04b1

<400> 1012

catgtataat ttgccattgg ggtcttttca actctgacac ggctttggga cttccttctc 60
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ggctcgagaa agcatgctcg tatgagaatg ctatcggtgg ctatgtatat gaacggacgc 180
ataatattat acaatatgtc gactatatac gttctaattg t 221

<210> 1013
<211> 185
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117b05b1

<400> 1013

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aaaaaaaaaa aaacaaaaaa aaaaaaaggg ggggcctttt taaagaacca aggttttctgc 120
ccggggggggg gcaaaaaataa ggttcttttt ttggccccct aaattttaat tcatgggggg 180
gggtt 185

<210> 1014
<211> 237
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117b06b1

<400> 1014

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ggagtttcat ttttgaggac gtgggcatag ccagtagtt gggggcgcac gattgtaaac 120

ctaacgacca gagttcgatc cacgtcgggg acgaatttct ggaattctca tgagggatgc 180
 ttcttctata tcaataaaac cgtgggtgct agtgcccatg gagtttcatt ttttttt 237

<210> 1015
 <211> 510
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117b07b1

<400> 1015

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 ctgcccaggg agtccccgtg aagtccaagt ttgccgaatc caagctccca aagttcaagt 180
 tcttgccctga gcacaggtct ccaaaacccc aggtgaacag gctgatcagc aagtacatcg 240
 actacctcaa cacgatccag gccaaagagg aggacacttt caacacccta caggaccaga 300
 acatgagcaa ggagtcgctg gcgaacgcga gcaagacgat gaacaagaag ctgcacgcca 360
 tgggtcaagtc ggcgaaagaa gactcgagcg aaatcgtgaa gctgggcggc aatgcgccgg 420
 cggtccttg ccggttcgat accgatgtca aggttctctc ccgtggatag gtagtctgca 480
 tgcaagtcct ctcacagaca gacagacagt 510

<210> 1016
 <211> 503
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl1189117b08b1

<400> 1016

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 tgggtctagc atgtcatggt ttcgaggagt atgtattgag gactcgcctt tatcgtctgt 180
 ttgtggaagg tcttgaccgt gcctttcttg agatttgga gcggttcaat gagggtcaga 240
 cgtctttcac agatgctctg caggaagctt acaatgagaa tccggttcca ttgcgccaac 300

atactttgaa ggctgagctg gagtgccccg gcggtttttt gcaactggag cgacaattcc 360
gccggtgcac ataaggcatt agtaaggaac ttccagatcg aagagtccaa gaggttgattg 420
cacaggaaat taattacaag cgtgcgttgc caaagacgta tgcacagttc gccaggaaga 480
agctcangtt gcagaagtct tgg 503

<210> 1017
<211> 235
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117b11b1

<400> 1017

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tctgtacctt gcacacacac tgtgtgtgca tatatattta tgcgacatgt atgcacgcgt 120
ccgtatgcgt gagtgaactg tcaactcett gctgtactcc agtcctagcc gatgtgtacg 180
tctgatgtgc ctgacctact tgttcaggca attaataaat agtaattgtt ttcct 235

<210> 1018
<211> 205
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117c01b1

<400> 1018

aaatgaaaaa aaaaaacaca taataaaaaa aaaaaggaaa aaaaaaaaaa gagaaacaaa 60
aaaaaaaaaa aaccggaaaa aaaaaaaaaa aaagggggccc accaaggga aagcaaaagc 120
aaciaaagaaa aacgggggac aaaaaacaaa acaaaaaaag gaaagaaaaa aaaaaaaaaa 180
caaccgaaaa cggggggcg ggcgc 205

<210> 1019
<211> 453
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl1189117c02b1

<400> 1019

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 ggcgcagccg ggggaggcgg cgggggnacgg gggcacgaca ggggcggggc cggaccagag 120
 cggcgggaag acgaagaaga aggggatggg gatggcgggc gggctggcgg tgggcgcggc 180
 ggcgggcgtg ctgggcgggc tggcgcctggc gggcggggcg agctacgtgg agcacaagat 240
 cgaggaccac gtgacggagc gcgtggagga ggacatgtac cgcggcggcg gcggtgggta 300
 cgacgactac ggcggcgacg acgactacta gaccaaccat gggtcgcg cggtccgtgc ttccggtggc 360
 catgcacgaa agaatctttc tttatgtttt ctgcgcgcgg aagatgccga gggtgagggg 420
 gaaccaccgg accggagagg tgagaagaag aga 453

<210> 1020
 <211> 314
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189117c03b1
 <400> 1020

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 aaaaaaaaaa agggaccgaa aaaaaaaaaac caaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaacc gggggggcgg ccaaaaggcc aaagcaaccg acgcgggagg caacgaaaaa 180
 cccccaaaag ggcacaaaaa aaaaacaacg ggccgcggga aaaaacgcgg gacgggaaaa 240
 acccgggggg aacaaaaaca aaaagccgag aaaaaaacc cccattggcc agagggggaa 300
 aaaggaaaaa ggcc 314

<210> 1021
 <211> 361
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189117c04b1
 <400> 1021

aaagtcagct gatgccaaga agggcgatgc caaggcccag gctgccaagg ttgccaaggc 60
 tgtgaagtcc gggccaatca agaagaccgc aaagaagatc cgcacgtctg tgacatttca 120
 ccgccccaa accctgttca aggccaggga cccaagtac cccaggatca gcaccctgg 180

caggaacaag ttagaccagt accagatact caagttcccc cttaccactg agtctgcgat 240
gaagaagatt gaagacaaca acacccttgt cttcatcgtc gacctgaagg cagacataaa 300
aaagatcaag gctgtcgtga aaaagatgta cgacatccat gccagaagg ttaacaccct 360
g 361

<210> 1022
<211> 454
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117c05b1

<400> 1022

ggggggacca ctgttgatcg gggacctttg gcggcgcacc ctgcagcagc tgcccctcgt 60
cgcgccgcac gtggagttgc ttcgcccgcg tcgtacgcgc gagcaggagc accaggagcc 120
gccccggacg cacttcgacg ggcacctctc cgtcgcgggt gtctccgtcg cgccgcgcgt 180
ggaggtgctc cgtcggcccc cataggccgc gcaagcagga gcaccttgcc aggggccgcc 240
cgggccgtgc atcgatgggc agctcgtcgt cgtggctgcc ccgtcgcgtc gtgcgtggac 300
ggcgatccgt gtcgtcacac gagaaggagc accaggcgcc gtcccagccg cacacattga 360
cgggcacctc gccgtcgcgg ctgttctcgt cgcgccgtgc gtggaggtca cccgttggcc 420
cgcatcagtc gcgcattcag gagcaccagg ggtc 454

<210> 1023
<211> 445
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117c06b1

<400> 1023

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tgccaccgc tgatgtccag aaccgcagcg ccgcgctgac ggaggaggcg cccacgggtg 120
agacgcccgt cgccgccgag gaggtcgcga agacggagga ggcccccgcg cctgtcgagg 180
ccgaggtcaa ggcgcctgct gccccgctcg aggtcgagga gaccaaggag gtggcacctg 240
ccgccgctga gacggaggag gccaaaggag ccgtgccagc atgctgcggt cgagccggag 300

<210> 1026
 <211> 263
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189117c09b1

 <400> 1026

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 cgggaggtgc acttgcttcg acgccggcga gtcgccatg ccgcaggtga tgtctctcaa 120
 gagcataaga tggcagagcg gggcgctctc ctgttctctc tcgaacacgc tcagcatccg 180
 ctgcagcagc acggggggccg gcgccgtcac gcgcacgga agacggctag ctccgcctgg 240
 gcggcgcggt catcacagcc acc 263

<210> 1027
 <211> 486
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189117c11b1

 <400> 1027

 ggttttccag gtggagcagt tctgcgacga ctccggcgaa gaccggcat gcagcaggtc 60
 cctccctctc tctccccgca ccaccatccc cctgaattg taccactacg tgctcatgg 120
 taccgcctct tggtaacat tgttcgccgc cttctcaggt ctgtgagcgg caacagcatt 180
 caagaccaca taacctacct gggcggtgagc atgcacgctg aggctggag cagctgcagg 240
 atcgtcatgg actacgccga gctgcggtac aagatggacc tccatggaaa cgtcgtcttg 300
 tcgaagcagc accagcagcc cggctctgtcg gacgagcgaa gaagacacag cgcccagtga 360
 aaccaatgta aacaagttct gtatcatcat agtagcacca cgcacgcaac ttgtcattcc 420
 cctctctgct tcattgggtc tgcattccaga gaggggataa cacaaccacg ctgcagagga 480
 aaatgc 486

<210> 1028
 <211> 113
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations

<223> Clone ID: uC-tsfl1189117c12b1

<400> 1028

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catgagcagg catgagacaa cctggcgaac tgaaacatct tagtagccag agg 113

<210> 1029

<211> 184

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl1189117d01b1

<400> 1029

ggcctacaac cgcgcacccc tacgacaccc gcacggaaca aagaaagcag gggaaccggt 60

aaacccccgn cccacggnnc ccanacnngn caaggcaacg aaggcccccg ccgcccgcggc 120

gctccaccac cacgacgccg ccgcccaca gcacgcccgc ggcgccgagg ccggggccgg 180

ggag 184

<210> 1030

<211> 351

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117d04b1

<400> 1030

gtgccctctc cctttttccg ccggggcttc tccttcgccg tcgtctgcag cgggtggttag 60

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aacggtagga aggtcggcaa gaagggcgtg taccagtttg ttgcagtacg gtgccaacgt 180

cgacggctac agtccaattt aactccaga ggaatggtct gagtctggtg accgctactc 240

cggcggaacg accgggcttt ttatctgggc cgttaccctt gccggccttc ttggcgagg 300

gggtccttct tggttacaac accagcgctt tttccggctt agagagcatt t 351

<210> 1031

<211> 417

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117d05b1

<400> 1031

agggggggccc tatttcccc gcccggccag accggagcac gcgcagagca ttctagtcac 60
tctgggcctg ccaggtggtg ctcatgggag cctgggaggg ctaccgcgtc gccggcggtc 120
cgctcggcga gatcgtggac ccgtctacc ccggcggcag cttcgacccc ctgggccttg 180
ccgtggaccc cgaggcggtc gcggagctca aggtgaagga gatcaagaac ggtcgcctcg 240
ccacgttctc catgttcggc tttttcgtgc aggccatttt caccggtaag gggcccctgg 300
agaacctttt cgttcacctc gtcgaccca gtaacaacaa cgactgggccc tttttcacca 360
actttttttc ctggcaagtg agctgcggtc agttaaacct ctaggccgac aacttca 417

<210> 1032

<211> 165

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117d06b1

<400> 1032

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cccctcctat tgccaagtcc ctagagcccc acactttagg ttttttcctt tccttttttg 120
caagttcgcc gggtttcccc gtaaagtttt aaattggggg cttcc 165

<210> 1033

<211> 353

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117d07b1

<400> 1033

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aaattagaca aggatctttt cattgcatcc atggagtgcg taattcactc tctgggtgac 120
cttgggtgga acacctcaat ccttgcctag agagggggcg cgcattggtaa gggactatct 180
agtccaatgt ggcggcagac tgttgatggt gatacgggtg ttttgctcta ctgcccgtcc 240
aacaagtgat gactgttttag agcatgaccg tcctgtcgca cttggggtct ttgaggccga 300

atgcatgttt gatgataaaa taagagggcc gcttgtgtgg ccaatcgtct 230

<210> 1037
<211> 456
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117e02b1

<400> 1037

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gcttccaacg ggagcgccgg cgaggtcagg gatgtccaca gcagcgagac caccaagacc 120
ctcctcaaga gcaacgacct ctacgattac atgttgaaga cgatggtgta cccgcgggag 180
aacgagttca tgcgcgagct ccgacagatc accaacgagc acatcttcgg gttcatgtcg 240
tcgccgccgg acgaggggct ggtgctgtcg ctgctgtcga agctgatggg cgccaagagg 300
accatcgagg tcgggggtcta caccggctgc tccgtcctcg ctaccgcgct cgccatcccg 360
gacgacggca ggatcgctgc catcgacgtc agcagggagt acttcgacct cggcctcccc 420
gtcatcaaga aggccggcgt cgcgcacaa gtcgac 456

<210> 1038
<211> 505
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117e03b1

<400> 1038

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cagccatgcc gccaagcta gaccgctgc aggtggtgga ggtctacgtc cgggtgaccg 120
gaggcgaggt cggcgccggt tcgtcgctcg cccccaagat cgggccctc ggctctccc 180
ccaagaagat cggtgaggac atcgccaagg agacggccaa ggactggaag ggctccgcg 240
tcaccgtcaa gtcaccgtc cagaaccgtc aggccaaggt ctccgtcgtc cttcggccg 300
cggcgctcgt catcaagtcc ctcaaggagc ccgagaggga caggaagaag gtgaagaaca 360
tcaagcacia cggcaacatc agcctcgatg acgtcatcga gatcgccaag atcatgaagc 420
ccagggtccat ggccaaggag atgggccgga ctgtcaagga gatcctcggc acctgcgtca 480

gcgtcggctg caccgtcgac gggaa

505

<210> 1039
<211> 471
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsfl1189117e04b1

<400> 1039

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ttacaagggc atatctgatt atttgctggt tgaggaactt caaatggaag tatgtaaaac 120
tacaattatg ttcttattcc taatgcatta gaacagatct gattgcttta tcaatgagtg 180
cataaattgt catttccctaa gattgctcaa acatacgagt tcttttgcag ggacaaaagg 240
aggaaagtag caagttcaca agttgatcta agatgttccg gtgactgctt ttggtcataa 300
catggttgtc acattttgtt catatggaag ttgatctcag cttgnggata gaagacttgg 360
tctcttccat aatttcttct ggtggtgatc gaacatttag tctcttagga cttggccatc 420
atattttatt agaggacatg actcgaatgt gacttatgta tttcctaata c 471

<210> 1040
<211> 569
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117e05b1

<400> 1040

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ccgcacaagg acgtggagga tgtcatcaag aggtctctcg ccttccgcat cgttgagagt 180
gcggacatca ccaaggagac gtggatgctc accgatgagg ccaaggggta tgccgcgagg 240
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ctcaaggaga gattggggga cgcgttcgat attggaatga aggcagcagc caagaacaag 360
tggaattgat tcgagaaggg aaacaaagac ctcgtactga gaaaggttga ggataccaag 420

gatgaattgc aagagcagct taaaagactg gagaactggg aggttttcgc tgacaaagta 480
tagatgattt gaagagaaga aagcttgtagc aaaagagaat ctatttgattt cactgagaag 540
gggctgattt gtgcaagaga aaacattgc 569

<210> 1041
<211> 398
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117e06b1

<400> 1041

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ccgggggtcaa gcgggtccag gacatcgcca tgatccaggc ggtgcccggg atgaaggcgc 120
tcgacatgaa cacggccgag gatgccatcg tgcgcctcac ccgggaggtg gtccccggca 180
tgattgtcac cggcatggag gtcgcccaga tcgacggcgc cccgagaatg ggcccgcact 240
tcggcgccat gatgatctcc ggccagaagg cggcgcacct ggcgctcaag gccctcggcc 300
ggtcgaacgg tatcgacggg acgctcaaga acgtgacccc ggcgctgcac ccggagatga 360
tcctggcggc gaccaacaac ggcgacatcg tggacgcc 398

<210> 1042
<211> 291
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117e07b1

<400> 1042

tggaggggag tggaatgatg ctttttttta ggtgcgaggc gggagtgcga tgcgcggggc 60
cgcgtagcgt gggctaaata aaagtgttgt cgggtcgggt cgacggccag tgtctgtcag 120
cagcgagcga cgcagtgccg ctctcgccgg cctgcgtctg cgtctgctta gctggagcct 180
tgctacgggtg tgtgtcacag tgtagttcc acctatgatc gatcgggtatc ctaaccgggt 240
tgcggttatcc ccgactacat taacacaatc caagccaaaa aggaagacac g 291

<210> 1043
<211> 382
<212> DNA

<400> 1045

acgaggtaac attctggacc ggtgctgtga tgtccccccg gctccagaat tcgcaagctt 60
gcctgggtttt atttatttat ccagtagtg ttagtatcat gtaaaccaaa tcgccagtct 120
gaaggtgata aaattactgt attacctatc aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaacccaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaag gggcgccctt ttgggggtcc cctttt 276

<210> 1046

<211> 433

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117f01b1

<400> 1046

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ccaccgccgg agggagggag ctccagccat ggccgccaag tgctaccga cggtcagcga 120
cgagtacctc gcggccgtcg ccaaggccag gcgcaagctc cgcggcctca tcgccgagaa 180
gaactgcgcg cccctcatgc tccgcctcgc gtggcactcg gccgggacct tcgacgtggc 240
caccaagacc ggcgggccct tcggcaccat gaagtgcccc gcggagctcg cgcacggcgc 300
caacgccggc ctgcacatcg ccgtcaggct gctcgagccc atcaaggagc agttcccat 360
cctctcctac gccgacttct accagctcgc tggagtcgtc gccgtcgagg tcaccggcgg 420
gcctgaggtt ccc 433

<210> 1047

<211> 130

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189117f02b1

<400> 1047

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accggtccgg gggagagcac tttaccccc angcaccgga aggacagcca gaaggggaac 120
gcgaaaagac 130

<210> 1048
 <211> 458
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl1189117f03b1

 <400> 1048

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acattttggg ctttnagaga gagatgttga agaaggaagg tttaaggagg agagccggat   60
gggcatcgcg gacgtggtgt cggagtactg ctcgctgccg cggggtcggc ggcacatgaa  120
gaagcggaag cagttccaga cggtgagat gaaggtccgc atcgactgcg agggctgcga  180
gcgcaaggtc aagaaggccc ttgacgacat gaaaggcgtg agctcgggtg aggtgacgcc  240
gaagcagaac aaggtgacgg tgacggggta cgtggatccg gccaaaggta tgcgccgggt  300
ggcgtacaag accggcaagc gggtgagacc gtggccctac gtgccgtacg acgtggtggc  360
gcacccttac gccccggggg cctacgacaa gcgcgcgcct cgccgctacg ttcgcaacgt  420
catgagcgac cccctcgccg tgccgttcgc cagggcct                               458
  
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<210> 1049
 <211> 425
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189117f04b1

 <400> 1049

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aggctcttcc tgagctgaat ggcaagctta ccggtatgtc tttccgggtt cccactgtgg  120
atgtgtcagt tgttgatctc actgttagaa ccgagaaggg tggatcatac gatgacatca  180
agaaggctat caaggctgca tctgagggaa aactcaaggg gatcatgggt tatgtcgagg  240
aagatttggg ctccactgac tttgtcgggt acagcaggtc gagcatcttt gatgccaaagg  300
ctggaattgc tctgaacgac cattttgtca agctcgtctc gtggtacgac aacgagtggg  360
gttacagcaa ccgcgttggt gatctgatcc gccacatggc caagactcag tagagcgttc  420
tgatt                                              425
  
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<210> 1050
 <211> 131
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189117f05b1

 <400> 1050

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 atcagattca ggaatcatgg aaaaaaaaaa acataaagaa accaaactta cgaaccgtag 120
 cataacaaaa a 131

<210> 1051
 <211> 396
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189117f06b1

 <400> 1051

 ccggaagcag ctgtagactt atgtctacaa catgaagaac accgtcggcg acaaggacaa 60
 gctggcggac aagctggaga gcgaggagaa ggagaagggtg gaggaggccc tcaaggaggc 120
 gctcgagtgg ctggacgaga accagacggc cgagaaggag gactacgagg agaagctcaa 180
 ggaggtggag gccgtgtgca accccatcgt gtcggccgtg taccagaggt ccggcggcgc 240
 gcccgggggc gagggcgccg acggcggcgt cgacgacgag gaccatgacg agctgtagat 300
 ggttttaagg gaaccaattt ttgtaatggg gttagtaggg tgagagagga gacatggata 360
 attggaaccg ctgttgctta ctttgggtct gcggtt 396

<210> 1052
 <211> 188
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189117f07b1

 <400> 1052

 gggggccagg tccaccagcg gagccggctg ccaaagcagt aacagctgcg gcgaacgaca 60
 gatggttccc aacggggctg ccgccgccgg cacgatcgcc aagaggatgc tcaccgactg 120

CCAGAGGAGT

ccacatcgag agcgtgcgca gggttactga cgcgccgggg agaccggcgg atcagactgt 180
acatcctg 188

<210> 1053
<211> 462
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117f08b1

<400> 1053

cagtgaggga ggtgttggcg gcgtccgacg gccaccgcc cgcgggcatg gggtcacccg 60
acagcgactc cagcggggtg ctgaacgaca cggacgcgac cggtgccacg ccaacagagg 120
aggcgccagc tccggagatg gggacgctgc tcggcggggc cggggcgggc ggcgcggcgg 180
cggcggggca cgggcagatg ttcttgcacg ggaatttcct gaaggtggag gaggacgaga 240
cggggttcct ggacgacgag gagccgtgcg gtggcttctt cgccgacgag ccgccgctgg 300
cgtggtggac cgagccgacg gatccctgga aatgaggcgc ggacagagaga gagactcggg 360
gggagacgac acctcgcgcg gggaataaaa gattagttaa agaagcaggg gcttttctga 420
aatTTTtgaa atctcgtttt atctagtcct ttctgtaaac cc 462

<210> 1054
<211> 466
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117f09b1

<400> 1054

ccagaggagt tcgggaagat gaaggcgaag gcgccggaca acttccgggt cgactacgcc 60
atcagcaggg aggagaccaa cgcggctggg gagaagatgt acatccagac caggatggca 120
gagtacaagg atgagctgtg ggagctcctg aagaaggaca acacctatgt gtacatgtgt 180
gggctgaagg gcatggagaa gggatttgat gagatcatgg tgccattggc tgcaaaagaa 240
gggatcgact ggatagagta caggaagcaa ctgaagaagt ccgagcaatg gaacgtcgaa 300
gtctactgat tcttgtcttt ctactctcg acatttcctt gtgcatatgt gccgacgcac 360
ccccgattcg tgcgatcgaa gaagattgat gtacgtacat aaaagtagat aaaggggtga 420

ttattttccga tattttgtca gggtgggttta tttaaagctc acatat

466

<210> 1055

<211> 405

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117f10b1

<400> 1055

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tcagcaaggt tggtttcgtc ttccgtgagc acaatagctc ccccgatac tatgacggtc 120

gatactggac aatgtggaag ctgcctatgt tcgggtgcac cgacgccaca caggtgctca 180

acgaggtgga ggaggtcaag aaggagtacc ctgacgccta tgtccgctg atcagattcg 240

acaacctgcg ccaggtgcag tgcgtcagct tcatcgctt caggccaccg ggttgcgagg 300

agtctggcaa ggctaaact accagttgaa acaatggcct atgtatgaag gtcttttctg 360

aacgtcactt atgtccacga ctctgctgga cgaccagagc atatt 405

<210> 1056

<211> 335

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117f11b1

<400> 1056

ctcgggacga ttttatcaag ggaccggttt tgaaagatgc ccaattctac agcaatatga 60

tgtctaagat gaccaatcct tcaacagaag aaagcaaagc ttgaactgga gcagtaccca 120

aaggaaggat aggtgtcccg gcgtgcgctc atggcagggc cagattgcct gtcagctct 180

atgggctggt tagatcacac atgtgcttgg agttgctaaa aactagagaa atttcagttt 240

tgaggttgcc aggcgatatt ttttcttgct aagaacaatg catgtttaga cctttgcata 300

ttatagtgtg tgctttccgg gaaatagatg gtctt 335

<210> 1057

<211> 263

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117f12b1
 <400> 1057
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 atcttcaatg acgacagatg cgcaaacata tttgaagcat tagttggcac cttacggggc 120
 gccagaaga ggaaagtgtg cacctacgat ggtgaaatgc ttctgcaggg tgtttcatga 180
 caatgtggag ataaccctct ttccttctc cacggttgct gtcacttgaa gtttgcaaca 240
 ccggccagtc tttcacatta ttt 263

<210> 1058
 <211> 496
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl189117g01b1
 <400> 1058
 ctattcctag caagctatat acctacatag nacagccatg gtccccaccg tgatggcctc 60
 gtcggccacc tccgtcgctc ctttccaggg gctcaagtcc accgccggcc tccccgtcag 120
 ccgccgctcc aacggcgcta gcctcggcag cgtcagcaac ggtggaagga tcaggtgcat 180
 gcaggtgtgg cccatcgagg gcattaagaa gttcgagacc ctgtcctacc tgccaccgct 240
 cagcacggag gccctcctca agcaggtcga ctacctgatc cgctccaagt ggggtgccttg 300
 cctcgagttc agcaaggttg ggtttatctt ccgtgagcac aacgcatccc ctgggtacta 360
 cgatggccgg tactggacaa tgtggaagct gcctatgttc ggggtgcaccg acgccacgca 420
 ggtgatcaac gaggtggagg aggtcaagaa ggagtaccct gacgcgtatg tccgcatcat 480
 cggattcgac aacatg 496

<210> 1059
 <211> 357
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl189117g03b1
 <400> 1059

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 actacggccg cctcgtcgtc atcgtcgacg tcgtcgacca gaaccgggca cttgtggatg 120
 ctctgatata ggtcagggtgc cagatgaact tcaagcgtct ttcgctgacc gacatcaaga 180
 ttgacatcaa gcgtatccct aagaaggcaa ctttgatcaa ggccatggag gaagcagatg 240
 tgaaaaccaa atggggagaac agctcatggg gttagaagct tgttgtccag aagagaagag 300
 catcgctgaa tgactttgac aggtttaagg tcatgttggc taagattaag aggggtg 357

<210> 1060
 <211> 200
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117g05b1

<400> 1060
 ggcctgtctc agctggggtg ccttctattg gcgatccctt cgtcagccgc cgtcaaacc 60
 acgagcagaa cacggtagcg cgggcggcta aaccgggctt cttggccaaa ttctgtccat 120
 gcctcgccgg ggggggagcc accagcctga ccgacaagcc cagccaccgt gggccgtgcg 180
 cgtgaccacc ggaggatttg 200

<210> 1061
 <211> 452
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117g06b1

<400> 1061
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 gcaaggacgc cggccggctg tcggcggcgt ggtatctcta caaggcccag gaggagatcg 120
 tggacgtggc ggagcagcac ggcgtgaagc tcaccatctt ccacggccgg ggcggcaccg 180
 tggggcgcg tggcgggccc agccacctcg ccacctgtc gcagccgccc aacaccgtca 240
 acggctcgct ccgggtgacc gtccagggcg aggtgatcga gatggtcttc gccaaagggcg 300
 accccggcat cgccgcgctc tacgacaagc ttctcgttcc ccaagacctc tggcccttcg 360
 gcgagcagct cagagccaac tacgccgaga cacagagcct tctccttgaa gttgctgggc 420

acgaagacct gctggagagc gacccgtacc tg

452

<210> 1062

<211> 305

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl1189117g08b1

<400> 1062

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cgagggcgcc ccgccgtat cggcggagcc gccggctagc accgacgct cgccggagaa 120

ggcggccccg cctgcgctg cgccggacac gacggtcagg tcccgggggt tcaggctgct 180

cggcgaggac accttcgtgc acaaggtgct cgggtggcgg aaactgctg atgtactgtt 240

atggaaggac aagaaaacaa ctgctgttgt gatcggtggc acaactgtaa tatgggttct 300

atttg 305

<210> 1063

<211> 419

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117g09b1

<400> 1063

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aacctgccc tcagaatgcc ggtggccccg cccgccgccg gcgccggcgc cggcgtccac 120

cccttcacct cgccctgcta catcaagatc cgcctcggca agatggcctg ccagaccgcc 180

gccgccccgt tcgtgctctc cgacgccgcc gccgagcagc ccccgccgg cgccctcgcc 240

gtggtctttc accttttcaa ggccgatctg gagggttcg cccgcaagcc ctgctcttc 300

ttccctccc gcggggccgc cacgtcaag gtgttcgttt acgccggccg caaggggact 360

acatgtggcg tcagctccgg gcggctgctc gggaaggcca ccatctcgt ggatctcaa 419

<210> 1064

<211> 404

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117g10b1

<400> 1064

tttcgacggg aggccttatag ctgcctcacg gcccgtagca agcagaccgc ccgcaagttc 60
accggcgcca aggcgccccg caagcagctc gccaccaagg cggcgaggaa gtctgcgccg 120
acgaccggcg gagtgaagaa gccccaccgc tacaggcccc ggaccgtggc gctccgggag 180
atccgcaagt accagaagag cacggagctg ctgatccgca agctgccttt ccagegcctg 240
gtccgcgaga tcgcgcagga cttcaagacg gacctcaggt tccagagcca cgccgtgctg 300
gccctccagg aggcggccga ggcgtacctg gtggggctgt tcgaggacac caacctgtgc 360
gccatccacg ccaagcgcgt caccatcatg cccaaggaca ttca 404

<210> 1065

<211> 258

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189117g11b1

<400> 1065

atctttccgg gttcacagat ttggaggatg tcttgcaact gtggatccgg ttgcagctgc 60
ggctcagact gcaagtgcgg gaagatgtac cctgatctga cggagcaggg cagcgccgctc 120
gccaggtcg ccgccgtggc cgtcctcggc gtggcgccctg agaacaaggc ggggcagttc 180
gaggtggccg ccgggcagtc cggcgagggc tgcagctgcg gcgacaactg caagtgaac 240
ccctgcaact gttaagct 258

<210> 1066

<211> 258

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189117h01b1

<400> 1066

agaacganac gtttgagcgg gattgcctcc aggcaagggg ctgcgaacgg aggtgaagaa 60
gacatggtaa tgctccttct gctgccgctg gcatgtgttc ttgtgtgtgc acagtgtatt 120

ccaagtagct actaccaagt tccaatctgg ttggttgtgt aataagcacc cgtggcccgg 180
ccctaggcag gcaggcgtag gtacgtgcat gtgtgcgttg tggaggcatg gtaatggtac 240
agtgagtctc gtttcagt 258

<210> 1067
<211> 286
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117h02b1

<400> 1067

agaaagtttc gcaagagaga gcaatgaaaa ccaagggact cttctgttat atacccttg 60
ttgcaggatg gcaagttgta ggatgtacgt gtaaacctga ttgtactctc ctgtctaaac 120
tacatccata atggtcttat tgcataattcc ctctgctcct tctatattcc tgtgtaagga 180
aatgtattcc tgagatgatt tgttatgtaa acctgatgtg atgcgatgga tgatttgaat 240
ttcatatgta gttttcttga ttttaatatg aaataatggt ggatgt 286

<210> 1068
<211> 295
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117h04b1

<400> 1068

gccagtagtg atccctcctg ttgttgatgc tgttccatcc aggacttcca agaagaaaga 60
gggatcagca tcaggttcag gatcaggttc agtgtccaag gatgtcgcta gacgggtgggc 120
aagaagggct cagaagcgag aggctgctta caaggcggct gcagagaagc acctcaagct 180
ccttgcagag gctgggccgt gggaaaactc ccgaagcggc acctgaagca ccggaattac 240
ttgtggttgg gcctccagag tctctcgagg ttggtcctac tgcgatcgag tgatc 295

<210> 1069
<211> 402
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117h05b1

<400> 1069

cccgccggtt tttgcggcgg ggaaactcaa gtactcgggg cgggccgcgg caacggccta 60
gggccagggc catcagccct tcccaaccac gcctgcggat gccaagtcca agtcctcggc 120
cgcggcaggg gccttgggcc acggccacaa ctcttccccg gtcacgcggg cggccggcaa 180
gtccaaggtc tcggcgcgat cegtggcacc gggccaggcg ttctttttca accaacccca 240
cgccgtcggc ggcgtgacg catccgcacg gagccttaag cgcaagcgcg gcgcttttca 300
gaaggacctg cagcacatga tgtatgggtt tggggacgat ccaaattcac tttcaaaaac 360
agttgcactt gtagaggaca ttgttgtgga atatgttact ga 402

<210> 1070

<211> 445

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189117h06b1

<400> 1070

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gagcatgccg aggcgcgggc ctcgggacga gacgcatgag accctgcgga cgtcgcagtt 120
accagcgcg catgtcaagg acaagtgggc caagaacctc tacctcgccg ggatctgcta 180
ctggcgaacg gtggcctagg ggtagcatag ccatagccat ggctgccggc ggagcgagct 240
ggatgcaatg catccttgct aataactagt aggttctatt tatccagacc tgatttttgt 300
tgttgacacc aacccaaccc ccaccccatg ccatacatgt gtattttttt atggagccga 360
gcattggtgg tcagcagcag gaggatctgc ttgcttaact ttaaatttag gtttaattac 420
tgccgcattg actgtagcgc ggtgt 445

<210> 1071

<211> 221

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189117h08b1

<400> 1071

cccttttttag ctgggaagcc tcttggtata ataacctaac taacaagnnn tatgatctcg 60
cattgcatat tgcttgatca acacatgcc a tgacctggct attgtatttg ttatattaca 120
atggatagtc ttggcttgct tttggactaa agcctttcgg actatgtata gcttgatttt 180
ggactgaaaa aaaaaaaaaa aaaagatgaa gagaccataa t 221

<210> 1072
<211> 471
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189117h09b1
<400> 1072

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aagaagcagg accacaagga ggccaaggag gccagcggcg agaagaagca ccaccacttc 120
ggctagatcg tcgttgacgt gcggtggccg gcctcgccgc cggccgtgcg tgtgcttacg 180
ttacgtgtgt tccataaagt gagagaggct gggacgcggg cccgggtctcg tgctcgcccg 240
tgcgtgattt tctctgcgtg ctaagctttc gcgtgcctga ataagtgggg ttgctgctca 300
tgcagtggct cccacacctc atgcgtcggg gtgtgtcgtg tgcgggtgtg tgttttaatt 360
ttaccggggc cctgtttttg taatttcact ttattttgca agtcctcacg aaacctttgt 420
ggggccattc atctcaaatt ttggtcttat taaaaaaaaa aaaagggggg g 471

<210> 1073
<211> 91
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189117h10b1
<400> 1073

aaaacaaaac ccgaaaaaaaa caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 91

<210> 1074
<211> 56
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189117h12b1

<400> 1074

tataaaaatt gtttgttggg ggcattgcttc aggacgaacg ctggttgcatt cttttt 56

<210> 1075

<211> 208

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189118a02b1

<400> 1075

atcgcgagcg gccgccctgg gtcctgtcat tgcctgcta taacggatag cgctccctgt 60

tggcgccgcc gtcggcgggg atgccctagt ggtggagggt gtatgtcttc ttccgcgggg 120

tgccctgct tgtacctaga tggttactct ttccgtccat tgtcaccggc taacattgtg 180

ataatatcag tctgggtaat gtttagatt 208

<210> 1076

<211> 365

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189118a03b1

<400> 1076

ccttactctg ccgcgagggg ctcgttagag agtaagaaag aagctcgccg gagtccgaga 60

aggggagggg gagggaggat gctaaactgg gggccggtgg cgatcacggg gccactggcc 120

gagctgctcg cggccggggc tccggtgaga ctccccggtt agcacgagtg gggacaggtc 180

gtcaaccaga acaccatggc cagcccttc ctgagtcaac accatccact acttgatga 240

cacagggtc tgcatatcg tcatcgtggt gcacatcacc accgactata aaccggttga 300

gtccatcaa ctctgtccgc cagcttcaat caaagtgtg tagcacttat acctttttct 360

ttttt 365

<210> 1077

<211> 423

<212> DNA

<213> Triticum aestivum

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96

<210> 1080

<211> 111

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189118c01b1

<400> 1080

attcctaata caacagggtca acgtgggtatt tcctccctgt tgtttcaatt gcctgaactg 60

agctattgct gatattattg caactcgtaa aagggattcc attcctttga t 111

<210> 1081

<211> 381

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189118c03b1

<400> 1081

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cccctcaagg ccggccaggc gcccaagtac atgggtgttcg cgtgcgccga ctcccgtgtg 180

tgcccctcgg tcaccctggg cctggagccc ggcgaggcct tcaccatccg caacatcgcc 240

aacatggtcc cctcctactg caagaacaag tacgccggtg ttggatcggc catcgaatac 300

gccgtctgtg ctctcaagggt tgaggtcacg gtgggtgattg gccacagccg ctgcggtgga 360

atcaaggctc tgctctcact c 381

<210> 1082

<211> 394

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189118e01b1

<400> 1082

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gcgtcgtcgg cggaggccga ggccgccggc cgccgcgcgg tccttggcct catggccagc 180
 ggagtcgtcg ggagcgcgtt cgctcaggtg gtgcacgccg gcaccgtcgc ggccatcaag 240
 gttggccccc cgccgccgct ctccggtgga ctccccgaa cggacaactc ggacgaggca 300
 agggacttcg acctgcccct gaagaaccgg ttctacctgc agccgctgcc accggcggag 360
 gctgctgtgc gggccaagga gtcggcccaa gaca 394

<210> 1083
 <211> 430
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189118e02b1

<400> 1083

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 catgatggcg tcctctcttcg cggccgtggc ggtcgaccgg cgcgcggcag ccccgcgccg 120
 cggcctcgtg gtggcccggg ccgccaaggt cgagggccag caggagccgg cgggtcaagat 180
 ggcagccgtg gagcccgcca ccgacggtcg tcgtgccgtg gtgtttgctg ccgccgctgc 240
 ggccttgctg gccattggcg ggggtggcgtt cgtcgagtcg gacgtcaaga aggggagttc 300
 cgaggccaag aagaagtacg cccccgtctg cattaccatg cccaccgtca agatctgcc 360
 caactgattc gggggagggg gcgaatatga tgcgggtggg cggtaaattt tgtacttcct 420
 acgggtttat 430

<210> 1084
 <211> 424
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189118e03b1

<400> 1084

tctccacgct acgctatccg gaaccttcg gaaggttgct ttgccaccct cccttcggtt 60
 ccgtccaacg gtgtcgtcgg gacagatctg cgctgtcggc ggcggcgacg gcgcatggg 120
 cgagcaggcc gcggccgttt cctcctgcga gacgcctgct ccggcggagg tggggacagg 180
 ggtcgggcag aggtcgtcgc ccacgccgtt cttgaacaag acgtaccagc tgggtgatga 240

cccggcggtc gacgatgtca tctcgtggag cgaggacggg tcggcgttca tcgtgtggcg 300
 ccccgccgag ttcgcgcgcg accttctccc caagtacttc aagcacaata acttcttcag 360
 cttcgtgcgc cagctcaaca cctacggatt taggaagatg gtgccggaca ggtgggagtt 420
 cgcc 424

<210> 1085
 <211> 264
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189118f01b1
 <400> 1085

gtacggcgag gggcggtagc gcggtggcgg ctgttgcgag cgccttaaca cggaggaccc 60
 gccgctgcgg aacacgggtgg tgttggtccc gcacgggtgg acggcgatcc ggttcgtcgc 120
 cgacaacgtg ggcgcgtggg cgttccactg ccacatcgag ccgcacctcc acatgggcat 180
 gggcgccgtc tttgtcgaag gggcccacat gatacgcgag ctcgacgtgc caagggagac 240
 catgatgtgc ggggtgatca ggac 264

<210> 1086
 <211> 276
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189118f02b1
 <400> 1086

ccgcttcacg gccttcaagc caccgggctg cgtggagtcc ggcaaggcct aaacagctca 60
 ctcacgacag gccatatata aagtgccatt gcagttttgt caactctgac attgctttgg 120
 gttttccttc tccatttata tttcttattt gttcctaaga atatgtgtat gtccatgttc 180
 atgtaccaac atggctcgag aaagcatgct cgtatgtgaa tgctatcggg ggctatgtat 240
 atgcacggac gcataatatt atacaatatg tcaact 276

<210> 1087
 <211> 299
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189118f03b1

<400> 1087

ggcgagcgga gcccgccctcc gtgcgtggag ggcaaaatgg gcaatgcctg tgttacgatt 60
 ctttcattta tttttcattt tttatactag cttcttgggtg ggggtgtgtac cagggttcggt 120
 gtcaattgaa tgtgtacatt tctatctttt tgagctatcg atgaataact tgttttcggga 180
 tggcatattt cctttttctt ttttggccaa ggtcaaaaaa aaaaaatata aataaaaaaa 240
 aataaaataa ataaaaaaa atactataat aataacctac aaatttatta taatataac 299

<210> 1088

<211> 438

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189118g01b1

<400> 1088

tctctctctc tccattatcc tgttctctgt ctcccgtccc ccacgcctct ccttggtccc 60
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 tccttggtcc cagccaagat ccacctccac ctaccgcctg tccccaagcc gctgacgagc 180
 accaggtcaa gtcgcgcgc ccctacctcc ttctccttcc tccttctctg ctctcctggt 240
 ctctatctct ccccatatcc tcacctcttg cctctctcct ctgaggcagc caacgccatg 300
 gacggctgcg gagcttcgcg ccaccgacg tcaaccgcat cgtcgcccca agggatccgt 360
 gcgcgtggcc gcgttgagcc gcacatgcgc tagatccatc cgccggtgtg tgccaccgta 420
 gcaacaagtt cggcaatg 438

<210> 1089

<211> 437

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189118g03b1

<400> 1089

agatcgagca ggtaccggcc atggactact accgtgagac ctacggcggg tacgggatgg 60
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actacggcgg gaggccgatg ccgccgcagc ccacggtgaa gatctactgc cgcgccaacc 180
ccaactacgc catgtccgtc cgcaacggca aggtggtgct ggcgccggcc aacccaagg 240
acgactacca gcaactggatc aaggacatga ggtggagcac cagcatcaag gacgaggagg 300
gctaccccg cttcgccatg gtgaacaagg ccaccgggca ggccatcaag cactccctcg 360
gccagtccca ccctgtgctg ctggtgccgt acaaccaga ctaccttgac gagtccgtgc 420
tgtggacgga gagcaag 437

<210> 1090
<211> 97
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189118h01b1

<400> 1090

tgtgtttcag gatacttcag ttcgaagtgg actgttcttg ctttgtcgtt gtattttctg 60
actgcgattt caatgaaaca ataagttgct ttcattcc 97

<210> 1091
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189118h02b1

<400> 1091

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caaccaatcg tgcagatatt cttgatcctg ctttactccg ttctggtcgc ctggacagga 120
agatcgagtt ccctcatccg acggaagaag caagagctcg gattttgcaa attcactcaa 180
ggaagatgaa cgtacatcct gatgtcaact ttgaggagct ggctcgttca actgatgatt 240
tcaacggtgc acagctgaag gctgtttgtg tggaagctgg catgcttgct ctacgcaggg 300
acgctacaga ggtgatccat gaagatttca acgaaggcat tatccaagtg caagcaaaga 360
agaagtccag cttgaattat tacgcttagt tttccttgag taatcagaac gcttgggtcca 420
gtgatgacct ctgtttgt 438

<210> 1092

<211> 235
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189119a03b1

 <400> 1092

 ggtcagacat ggcacccttt aagctgaaga gttgcaaacc gacagagatt gcttctgaat 60
 tttgtgtcca agcaagttgc atgtcctcaa tatgaacctc ttctcaaatt acattatcgt 120
 gcaagttcta ttacgaatga tgatgtaatg tgtagaacag attagagtca acactatgat 180
 gttacacttg tatctactgt gttatttagt ccaatgtgat acattagttt gttcc 235

<210> 1093
 <211> 420
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189119a04b1

 <400> 1093

 ccttctctgc cggccgattt tcaagagcat tttctgcaag caatggacgt ttcgggcacc 60
 ggagctggcg ccaagggcaa gaagggcgcg gccgggcgca aggcggcgcg cccaggaag 120
 aagtcggtga cgcggtccgt caaggccggg ctccagttcc ccgtcggcgg catcggggcg 180
 tacctcaaga agggccgcta cgcccagcgc gtgggcaccg gcgccccgt ctacctcgcc 240
 gccgtcctcg agtaccttgc cgccgagctg ctggagctcg ccggaaacgc cgccaaggac 300
 aacaagaaga gccgcattat cccgcgccac ctgctgctcg ccgtcaggaa cgacgaggag 360
 ctcggaagc tgctggcggg cgtcaccatc gcgcacggcg gtgtgatccc caagatcaac 420

<210> 1094
 <211> 339
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189119a05b1

 <400> 1094

 tcatgggaga aggtggtgta taggggaatc cttgcgggag agctctggct agcctagcct 60
 ttacaggcc catgagaagc caacaacaca ttctttcagt gacatactac tccctcctaa 120

gcgtgctgct ctttcgtgac gtgtacctac gaacaagctt cttcatctgc agaacattcc 180
 gtgtgcctgt taaaacagga ataaaaatga ataacctggt tgtggagcga ataaaatgat 240
 ttccgagaaa aaaaaaaaaat cacaagacct acctacactt ataaaaaaaaa gcgaatgcga 300
 ctagagagtt atcaccaaga gaagtgtttc acaattttt 339

<210> 1095
 <211> 155
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189119a06b1
 <400> 1095

tggttggtcg atgggggtgtt gtattgtgtt gctttcgacg cctcgtgtca tcttgtgatg 60
 ggcgttcttg tagtctgaac tgctaagtgt tatgtagttc ctttccggtt gaattgttat 120
 tcctgtcgca ggacgaaatg aaaatttggt tgccc 155

<210> 1096
 <211> 395
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189119a08b1
 <400> 1096

cagctcaaaa acaactggca acccttcgcg agcatgcgcg cgggggcacg caatcaatgg 60
 cgcttgacgc gatcgccctc tcctcgtcc tcgtcgccgc ggcgccggcc gttggcacgt 120
 ctagtgagga gcttgccgca gtgctccagt gccacccggc gccggcgctc acggacgcca 180
 ccgacggcac ggctttccgg gccagcctcc tcctgctcct tagcgctctc ccctccgccc 240
 ccgcgccgat gggcttcgcc tcctgcact ccgacggcgc gttcgcccgg ggggtctgct 300
 ttggtgacct caccacgtg tcttcaggct ccgagtgcgc ccggcgctg tttgacgccg 360
 ccaggaacct caccgcgcga tgcggtgccca ccagc 395

<210> 1097
 <211> 247
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189119a09b1
 <400> 1097
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 caatatgtat ctctctctcg ccaccccat tcaccagcta gctcgagcta gcttgctctt 120
 ctctgctgca agctgctgat cggttctttg atctttccgg gaggggaagcg ccgggagttg 180
 gctgttctgt caggctggct cttgacatgt tcagatcgaa ggtccaggag atgacctca 240
 agaggag 247

<210> 1098
 <211> 393
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189119a12b1
 <400> 1098
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 gctgatgcgc cggacgacca gcctggcgtc catgccgctg gtgccaagc aggtgcgcca 120
 gggcagcggc ggcggcggcg gcgacgacga cgacaaggac aggcaggcgc ggcgcgggcc 180
 gtctctctcc gtatcggccg ggcgggtggg gacgggcggc ggtgcctgcg gtggctaccc 240
 ctttcccggg cgggacgcct tcgccgggct gatgatcacc gcggcggttc tgtccgcctg 300
 cggcttctgc gccaaagccc ttggccccgg cgaggacacc tacatctaca ggtaccgccg 360
 gcgtccctgc tttcccatte tttgctcgga aat 393

<210> 1099
 <211> 514
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189119b02b1
 <400> 1099
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 ttaccagtt gtggatttac gagcagtgc ggttgatggc tcctaccacg atgttgattc 120
 aagtgtcctt gcattccaaa ttgcagccag gggggccttc cggaaggat tgaggaaagc 180

tggtccacga	ctcctggagc	ctataatgaa	ggttgaagt	attaccctg	aggagcattt	240
gggtgatgtt	attggtgatt	tgaactctag	aagagggcaa	gttaacagct	tcggagataa	300
gccaggtgga	ctgaaggagg	ttgatgcttt	cgtgccactt	gccgagatgt	tccagtatgt	360
cagcactctg	aggggaatgt	ccaaggggcg	cgcgctgtac	acaatgcagc	ttgccaagtt	420
cgacgttgtc	ccacagcata	tccagaacca	gctctctgtg	gcaaaagagg	aagctgctgc	480
caaaatgttc	attattccga	gataatatat	atga			514

<210> 1100
 <211> 488
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189119b04b1

<400>	1100	
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cccggcagcg	gcagagccct	cgccgccgtc gcgccctgca actcctcggc gtcgccgtcg 120
ccgtcgacgt	cgacgtcttc	ggttgcgccg gcgagcgcg gcaggagggg cgtgctcgcg 180
ctgggcgcgg	ggttcctggc	ctccgcggcg ctgctgtgcc cggccgggga cgccggcgcg 240
acgcgcacgc	agtacttcgc	gacggtcggg gacaagctct gcgacatgga cttcgccaag 300
tccgggctcg	gctactgcga	cgtcgaagtc ggcaccggcg tgcagcccaa gcgcggcgag 360
ctcatcaata	tacactacac	ggcgaggttc ccagacggga cgggtgttcga cagcagctac 420
aagcgcggga	ggccgctgac	gatgcgcacg ggcgcaggca agattctccg agggcttcaa 480
caggggat		488

<210> 1101
 <211> 70
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189119b10b1

<400>	1101	
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aaaagggggg		70

<210> 1102
 <211> 415
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189119b11b1

<400> 1102

gcagtaaagc atgagaagag ccaggtagaa gataaacttg aacaggaaaa gctgcagagc 60
 ttccacctga agaaggaact agctgatgta gagaacaaaa atgcggagct tactaaggaa 120
 ctccagtcag tccgcgatca actctccgac gaagcagcga gggcttccaa actcgaggat 180
 ggagtttcag agattcaaca acggctgcag aagatggaaa cccttgaaaa ggagttcgaa 240
 ttgcttcgga gtgaaagggg tggcgggtct gacaaatcag gttcaggcag caacaagagg 300
 cccggcagcg tgggcttccg gaggtggtat ggagatgacg agcgctgaag cagggactct 360
 tctctagggc cgcattcttc catttttggc cggtttctga tcatatatat ttttc 415

<210> 1103
 <211> 244
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189119b12b1

<400> 1103

acaccatgcc gttatacga cagtttatag agctatatac ttgtgcataa agtgtataca 60
 tacgggctgc aaggtctata attgtagctg ccgttgccac gccagttttt catcaattac 120
 cgcttcaata agtttgccat tctgtaataa gagtcacaca gccttggcac agcattcaga 180
 aattcaattc ttgtaaagtt gtaatactcc ctccgttccct caatataagg tgtattattt 240
 ttcc 244

<210> 1104
 <211> 237
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189119c01b1

<400> 1104

ggatggaaag tttgggtctt gtcgggggga aaattgggaa aaaaaaacccg gaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaagg gggggggccct tttaaaggac caaagtttac 180
 ttccccgggc ttgcaaggta aaactttttt tatggggcca ccaaaaaaaaaa attaagg 237

<210> 1105
 <211> 475
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189119c03b1
 <400> 1105

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 gatgatcgga agcgtcgtgg gcatctacaa tggcaagtgc ttcaaccagg tggagatcaa 120
 gccggagatg attgggcact acctggcaga gttctccctg tcgtacaagc cggggaagca 180
 cgggaggcct ggtatcggtg ccaccactc gtcgaggttc attcctctca agtgagaata 240
 tggtcaggaa aattgtctga gatgtctgga atccagtgtt cttatcctag tcaaagttag 300
 cacctgatat accgtctgtc agtctagtgg tggagcagct ccctttgaac cttgaactaa 360
 tccagttcca gattttgaag ttatcatgag gaggatcgaa catgtttctt tccttaaagt 420
 tgtcatctgt tgcgatttgt gtgctcttct aaattttgat cagatttate gggttt 475

<210> 1106
 <211> 53
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189119c04b1
 <400> 1106

aaaaaccgga aaaaacccaa aaaaaaaaaa aaaaaagaaa aaataccact atg 53

<210> 1107
 <211> 253
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189119c05b1

<400> 1107

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aagtcgtgta ctgggtattg tcacatctaa gaccatttga attgttagtg gtcacgtgag 120

gcattctgtg ttgatgcact ttacatccg agacatttga atttgcacg gtgtgttgat 180

gcaagttgtc cttcaccatg gtttgtatgt gccaccacta tggcaggatg gtttatccac 240

gctattgtgc act 253

<210> 1108

<211> 376

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189119c08b1

<400> 1108

ccaccacacc ggagaggggg gaatttttagc gtttatgtcg gggcgcgga agggaggcaa 60

gggtctgggc aaggcgggcg ccaagcgcca ccggaaggtc ctccgggaca acatccaggg 120

tatcaccaag ccggcgatcc gtcgtttggc gcgtcgtggc ggcgtgaagc gcattctggg 180

gctcatctac gaggagacc gcggtgtgct caagatcttt ctcgagaacg ttattcgtga 240

cgccgttacc tacaccgagc acgcccgcg caagaccgtt accgccatgg acgtcgtcta 300

cgacttaag cgccagggac gcacctcta ccgattcgga ggctaggta ccaccaccag 360

attagagtgt ctgggg 376

<210> 1109

<211> 402

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189119c09b1

<400> 1109

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cggaccggtc cgggtcccggc tccggaagtc tccagaacct gcacaaccac cgnacgcgg 120

gcccgcatgg cagggtcacg cccccacgc gcctatgcct tcggcgagac ctctttctc 180

cccctcataa ataccgcgcc caagcctcgc cgnagatcga ccgggctcgc cctctctggt 240

gagcagtttt

<210> 1112
 <211> 441
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl189119d02b1

<400> 1112

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 cggccgtggc ggctgaccgg tgcgcggcag tcccgcgccg tggcctcgtg gtggcccg 120
 ccgtcaaggt cgagggccag caggagccgg tggccaagat ggcagtcgtg gagcccgta 180
 ccgacggccg ccgtgccgtg gtgtttgctg ccgccgctgc ggccttgctg gccattggcg 240
 ggggtggcgtt cgccgagtcg gacgtcaaga aggggagttt ccgaggccaa gaagaagtac 300
 gccccgtct gcatcaccat gccaccgtc aagatctgtc acaactgac gtggggaggg 360
 ggcgatgatg atgcgggtgg gcggtaaata ttgnactatc gtccggttta tcttttgttg 420
 aagttcgagc tttgatgcat a 441

<210> 1113
 <211> 429
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189119d03b1

<400> 1113

ccttttgggg tgggcttaag gcagatgtct ttgccaagta ccaggcctac gagctcatcc 60
 atgccagggtg ggccatgctc ggcgccgccg gattcatcat ccccgaggcg ctcaacaagt 120
 tcggcgcaaa ctgcgggtccc gaggccgttt ggttcaagac tggcgccctt ctccttgacg 180
 gcaacaccct caactacttc ggcaacagca tccccatcaa cctgatcctc gccgtcgtcg 240
 ccgaggtcgt cctcgtcgga ggcgccgagt actacaggat caccaacgga ctggaatttg 300
 atgacaagct ccaccccggt ggccattcg acccgctcgg actcgccacc gaccccgacc 360
 aggcggcgct gctcaagggt aaggagatca agaacggacg gctggtcatg ttctccatgc 420
 tgggctttt 429

<210> 1114
 <211> 369
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189119d04b1

 <400> 1114

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 ctggagaaga ggagcgtcca tgacctcatc ctttccgtcg gatctggtgg aggcgggtgct 180
 ccagctgctg ctgctgctgc cccggctgct ggtggagctg ctgccgctgc agagaagaaa 240
 gaacagaaaa aggatgaggc ttatgaagag agcgatgatg acatgggctc tagcttgctc 300
 gactaagcag ttcagattcc gttctcctgt ggaatcttct atgcttagga ttactcatct 360
 tatgtgctt 369

<210> 1115
 <211> 233
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189119d06b1

 <400> 1115

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 tgggttttgca tataggagta tagtagtact gtctatggac ttgagtctaa cagggatgca 120
 tatcgtccga caaagtaagg caatgcgatt atgcactcgg taaggattcg agaaaccggc 180
 agccattttt cagttatgaa aagacggcgc acagagtcct cttccggttg aaa 233

<210> 1116
 <211> 280
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189119d07b1

 <400> 1116

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cttncccata caaacaatat ccacaacaac aaccatctgg gagcgacgtt ataagtatca 120
 gtggcagatg aaatgaagag atgttatact agacgggtga atcatcattg ttagtaaatg 180
 gagcataatg taacgatgat aaataaagtg atgtgcacca tcatgtgtaa cctcgacctg 240
 tactagttca aacatgggaa taaaagacaa ataagttctt 280

<210> 1117
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189119d08b1

<400> 1117

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 gccatcgcg cgtgcatgtc ctacgcgacg gggaaggcgt tggcaccgtc tgcgggggtgc 180
 tgcagcgggg tgaggaccct gaacggcaag gcgtccacct cggccgaccg gctaggcggc 240
 gtgccgctgc ctcaagaacc tggcgggggtt gttcaagggc attagcatgg gcaacgccgg 300
 caccattccc ggtcccacgc gttcgctacg cgttccgttt aatatttaaa tttttctggt 360
 tgttttttct cttcattcct tttccttatt attcctatat tt 402

<210> 1118
 <211> 315
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189119d09b1

<400> 1118

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 gtgaacttca cttttgtcca ggactctgct ttccgaccag agcatatttt tccttcggta 180
 tgatctgtgt ttgtacgaac ataggtttgt ggagcatgca tatgtaaatt ctagcaccgg 240
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 gctggttaatt ctcg 315

<210> 1119
 <211> 372
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189119d11b1

 <400> 1119

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 gttcccaaga ggtcccatgg aggatgacgg tcctagccgg agcggcctgc cgccggtcgg 180
 ggagtgcgaa tggagggagg agctgtggca gcagcagtc caggtcgagg cgctgcgcga 240
 cctgctcgtg gtggtcaagg ttcggatgcg gcgcttctag gacgatttca gccgggagct 300
 ctagcacctg tgtcgcatgg tcaatgacca tcgccaccct gctggcggtc cttaaattca 360
 atgccaggat ca 372

<210> 1120
 <211> 406
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl1189119d12b1

 <400> 1120

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 ccgnccttgt cgccgcctcc gccaccgtgg ccctcgccgt cgacgccccg gtcattggccc 120
 cggcccccg cgccgtcgtc gtcgggtccg tcgccgcctt cgttcgggc gttggcgccg 180
 agctcggggc caccgtgctc tccttcttcg cctactacct gcagtaagcg cgccccggcc 240
 cgagtcagtt tgcttcgagg aggaggaagg caggaagaag aagatcacta aattcgcttt 300
 gtatggctct acgctacgct gattcaaggc gcgcgcgtgc gttttgaacg atgcatgcgc 360
 gtgctttgat ttatatgtct tgatttaata ttgtttcttc ttcctt 406

<210> 1121
 <211> 173
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189119e01b1

<400> 1121

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caagcacagt atctgcgaag actcattcga gtcggcaacc tatgttagta tatcggatat 120

ggccatgaat ggggctcgat tgggctgctc caagcgacag ctgtaggtcc tgg 173

<210> 1122

<211> 115

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189119e02b1

<400> 1122

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ttaagcccc ctggcaagaa acttagccac caccgggggg tccccgctgg ggttg 115

<210> 1123

<211> 384

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189119e03b1

<400> 1123

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tgcaggccac cgaccccagc gaaatgagcc tcgacgtgat caaggagcgc gcgcactaag 120

gcagatcatc caatgccctc gcaatatgga tttatgtcaa atatagattt ggcggtgtga 180

ctcttgaaac tttcttgatg atttgtggct ttgttaccgt gtcgaaaggc cctcctcccg 240

tggcccgtgt gaccacggag ggcttgctct atcatgtaat ctgttctttt tcttgtgccc 300

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taattaaatg ttctgtttgg attc 384

<210> 1124

<211> 73

<212> DNA



aaaaaaaaaa aaa 73

<213> Triticum aestivum

<400>	1125
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gatcag	486
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<213> Triticum aestivum

<400>	1126
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ggatccacgc tccgataggc ttgcatcgcc atgcactccg tctgctctag cgcccgggtgg 240
gtctgtttta gtgac 255

<210> 1127
<211> 398
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189119e10b1

<400> 1127

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cgcaggcgcc cgcgaggcg ggcgaggacc ccgccttcct ggaggcgtgg aagaaggtga 180
ccacaatcat tgagcccccc cagacgcca tgctcggtcat gaagtcccg cgcgccacgc 240
cggcctacat tccctccaag ctcaccgtga actttgtcct cccctacaag tacgagatca 300
ccaacaagga ggttgacatg gtaatggtac cggctacaac tggactgatg ggttttttgc 360
caggccatgg tttcacaatt gcagagctca agcctggt 398

<210> 1128
<211> 370
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189119e11b1

<400> 1128

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cataaaggat gatggcgcca tggttgcgca tttcgagttc cacaagcacc cgattacatc 180
tgtggaatgg agtccacatg aagcatcaac tctggctgta tcctctgctg atcatcaact 240
cacgtacctg tccctacgat taattttttt ttcgattaag tgctgctatc ctacgacatt 300
tcgaattctc ttgctgtaac atgctggatt gtttgtcttc agaatttgag atctttcatt 360
ggaaaaagat 370

<210> 1129

<211> 472
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189119f01b1

 <400> 1129

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 ggccggcaat ctgcttctcc cctgccgccg ctgccgccgg cccttgccgc ggtggcgggc 120
 ggccccgttc ctcgaagggg agggggacct ccggccgatg cgtggggcgc ggcgggcgat 180
 cttgggcccc gggggcgccg cctcgggtctt ggcgacgacg gctgctgcgg ctgcttgggc 240
 ggcgcggtgg ttgggcctgg ggcggtgctg ctgcggccat gctgggtgct cgcggtggag 300
 gaagctcggc cctcctgctg caccgcttc ttcggcgcca cgactccggc gacttcgcgg 360
 gcttgctcgc ccgaggtcct tctccagctg gcctaggcgg gtgggcagcc ccctggtctg 420
 cctgtgcgag ctcgtaaccg tggcccgtt gtcgatgggt ttgccggctc gt 472

<210> 1130
 <211> 481
 <212> DNA
 <213> *Triticum aestivum*

 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl1189119f02b1

 <400> 1130

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 aatggcgctc ctcgtcgccg tccagccggt cgccgtgagg ggcttgcccg gcagctccat 120
 ctccggccgc aagctcgccg tgcggaccgc ctccgccgcc gtctcccgct ccacgcgcag 180
 ggctcgcggg gcggcggtgg tggccaagta cggggagaag agcgtctact tcgacctgga 240
 cgacatggcc aacacgacgg ggcagtggga cctgtactgc agcgacgcgg cgtcgcccta 300
 caacggcctg cagagcaagt tcttcaacac cttcgccgcg cccttcacca agcgggggct 360
 gctgctcaag gtgctgctgc tcggcggcgg ctcgctgata gcctacgtca gcgccaccgn 420
 ctcccccgac ctgctcccca tcaagagggg actcagctgc cgtccacccc gggaccacgc 480
 g 481

<210> 1133
 <211> 531
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189119f05b1

 <400> 1133

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 catcaagcga gatctctgtc aataccaaca agagcaagag caagagcaaa aaatcgaagt 120
 ctcatgcaag cagaagggtcg ctgactagcc caggcagcaa ttcagtcgga cgaagcagca 180
 ccgataatct gtcaaaggat tataagcatg cgaagagaga gagctcaggc aaggttgcca 240
 agtctgacaa cgctgatcaa gagcctcgca tgagcaacag cactccattg ccaagttaca 300
 tgcagttcac agaatctgca agagcaaagg cggctgctct atccccaag ttaagcccag 360
 atgtgcaaga caacaacccg agaaagaggc attctttgcc catcacaac ggtaaaaacg 420
 aaacatctcc tcgcatgcaa cggtcattct cccaagccca gcataatgtg aagagcagcg 480
 ttgctgttcc tcacaatcca tctgataaga ggtggaatat atgatggatg g 531

<210> 1134
 <211> 338
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl1189119f08b1

 <400> 1134

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 acaggatccc gctggtgcgc gccatggaga acctcctggc cgcgtcctcc gggctctgctc 120
 tcaggccggc tgccgtcgcc ggcggcggtc gcgggtacaa cgccggcgcg cccctccgta 180
 gctacgaccg ggacgaggcg gtcgagcgca gccccgcgg cggcgcgcgc gagcgcgacg 240
 tcggcgtgcc cagcttcttc ttagatgtgt tccgtgatcc gttcagcgcg ccgcagagcc 300
 tgggccggct gctgagcatg ctggaccacg tgtcggcg 338

<210> 1135
 <211> 76
 <212> DNA
 <213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189119f09b1

<400> 1135

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cacgaggact cgatct 76

<210> 1136

<211> 113

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189119f10b1

<400> 1136

agagaaactt gaaatccctc tcttgcttgt cgtgacactc agagaatagt gaaaccattt 60

gatatcctca ttagtcagct ttcattttct tgaattgcat gtttgtaatc tac 113

<210> 1137

<211> 292

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189119f12b1

<400> 1137

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gcggaacgac cgggcttctt atctgggccg tgaccctcgc cggcctcctt ggtggggggcg 120

tgctcctcgt atacaacacc agcgctttgg ccggctaaga gagcatctac gtgtaacaca 180

gggccggggtc tctgcttgca tgcacgtctc tgtaatctac gtagctacct cctgtgaatg 240

tatgtgatca acgatgcaca gtgattgatt cgaacagatg gcttatgttt gt 292

<210> 1138

<211> 158

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189119g01b1

<400> 1138

aaaaaaaaa agaaaaatta taaaggaaaa attaaaaaaaa aaaaacagaa aaaaaaaaaa 60

aaaaaaaaa aaaaaaaaaa aaaaaaaagg ggggggcctt ttaaaggac caagtttacc 120
tccccgggct gggcacggca aaactttttt ttgggggt 158

<210> 1139
<211> 413
<212> DNA
<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189119g02b1

<400> 1139

atgtggcaag gttgctttta tactaagctt tgacgagaac atggaccgag acgtcaagtt 60
cttcacggag acagaggaga acaaccagat gcgtggccca aggactgccg tcccgatttt 120
tctctgactt cagttgtaca attttagaag tcgctgtttt aagctgtaag ggttaaaaga 180
cgaaccggag gtggttattg ttgtaggggt cagatgatag tccaatctga tgcgttttat 240
ttctcgcgct tcttttaacc acatgtacaa tagatccttg ggagcatcat tactcctgta 300
ttccttctat gacagtgtcc aattttgctt ctttttattg tttattatta ttattggtat 360
acatgttgta cgggcgctat ttatatgtca catatatgca tttggcaaca tac 413

<210> 1140
<211> 465
<212> DNA
<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189119g03b1

<400> 1140

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tggccggcgc gatcgtcgag aggaggggag gacgcggggc cgtgcgggcg gcctcgcccc 180
tgcgcgcgca ggccgccgga gccgcgaaga agaactgtct ggtcgtcaac accaacagcg 240
gaggccacgc ggtcatcggt ttctacttcg ccaaggcgct gtcgcggcg gggcatgccg 300
tcaccgtgct caccgtcggc gacgagggt cgcacaagat gaagaagctc gcgttctccc 360
gcttctcgga gctgacgagc gccggggcca agacggtgtg gggtgaccgc gcggacgtct 420
gcgcggccgt cggcggagcg ttcttcgacg tcgtgctgga gaaca 465

<210> 1141
 <211> 494
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189119g04b1

 <400> 1141

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 gagcaatgga gtcgaggaag ccgcagcgct ccgctctcgg cgacagctat gtgggtccccg 120
 gcgacgtcat cctggacctc gccgacatga ccaaccagac catcaagctc ggcgccggtc 180
 tgcgccagga ttgtgacact atccaggcaa ctagtgctgg gaggcttcga ctgtccaagc 240
 ccaacaagta ctgggtggag aactcccaga agaggtatgt accttctgta gaagatacgg 300
 atcttggtat tggagttgac accaaaccag ataacttctt ggtggacata aaggggccta 360
 atttggcctt tttaccagtt ctttcatttg aaggtggtac aaggaggaac ataccaaagt 420
 ttgagatggg tacattaata tatgccagaa tggtgaaagc aaatagcatt atgaatgcag 480
 agctttcatg catg 494

<210> 1142
 <211> 123
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189119g05b1

 <400> 1142

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 gcc 123

<210> 1143
 <211> 246
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189119g06b1

 <400> 1143

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 gaaaaacagc tgtggaaaat ctcatgtgaa aaagatgtag gtcatttggc aaactagctg 120
 atatagcttt ttcaaatttt ggccctgcagc ggaatcattt tagaaagcac gtccctgggtt 180
 gcttccgctt ttggttcaga ttttgacagc ggatttctga aatcggattc tgttgggttt 240
 gacctt 246

<210> 1144
 <211> 423
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189119g07b1

<400> 1144

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 ccgcccagca gcactgccgg cgccggcgcc atggggcggt ggtggcgtag atggagccgg 180
 acccgaactc gccggcgggc atcctggggc gcatcgctcg ggccctcccc gtggtggggc 240
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 agttccgccc ccgcgtcagc aagaagtgca ccgtcatgga ctcccaggcc ttctacgact 360
 tcaacgaccg ccgcggcaag gtgggagacc ctttctacgt gctgctctgc tgctggctgg 420
 ccg 423

<210> 1145
 <211> 428
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189119g08b1

<400> 1145

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 cggcggcgcc tactacaagg aggcgatgga gaagaacaag cagtacgtcg tgcagcctcc 180
 ctccgtggag aagtgccagg agctcttcaa gcagctcttc tacacgcgcc tcgcgagtct 240

accagggccgc tatgaagcat tgtggaaaga ggttgatggt gtcaagcagc tttggaagaa 300
 caggaaggag ctcaaggtgg aggaccttgg aattgcaaca ctgtttgggg ttgagcttta 360
 tgcattggttc tgcgtaggcg agattgcagg cagaggattc accttaaccg gctataaggt 420
 ctgaatta 428

<210> 1146
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189119g09b1
 <400> 1146

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 atctgctgtc ctgcaacaca tcagtgttgt gaagcctgct atgctgcctg ctgtgttccc 180
 gcgcttcatt tcagtatcac ctgctcaaat agaggagagt ggatttgaga gcagcactgt 240
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 tgatgacagt gtctatgatg ctgtcaaate gatgacacac cacaatgtgg gagctttggt 360
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<210> 1147
 <211> 425
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189119g10b1
 <400> 1147

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 gaattctttc aggtgcttag ataaggctgc tgtagtctta ggggaccaag agataaagtg 180
 atgcggagca tccttccatc atcccatgg actctacagc aacacatcca acccctcaag 240
 gacctatgac tcgagcacgt gcaagagctc ttgaaaccga ggtgacatca ctctctcac 300
 aattcccttt cgattcacat gagacatggt tactacctca aatggaaacg ctatgcatac 360

tcagggtacca aggagttcac cgtgaagaag ctaggaagca aggagaaccg gaagcggaag 420
 acatg 425

<210> 1148
 <211> 430
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl189119g12b1

<400> 1148

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 tgaaaggatc ttgcggcaag tcaactggcg ctttcccgca aggttgcttc tactggaacg 180
 ctcttgagg cctcaagtcg tacgagaatc ccaagaacaa ggtcaccgct gtgcctgcag 240
 atgaggagga aatctgtggt gcaactttca tgggtggaagg gtctaccgtt gtcgcggcac 300
 ttcagtagga gattctctcg tctccgtcgc tgggcaaagc aagcaaggcc gntctctgt 360
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 tgtgaactgt 430

<210> 1149
 <211> 528
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl189119h01b1

<400> 1149

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 tgtgccttca tgattgcgcc gtcaagggga agaacttgac ccaggagcaa tgccagtacg 180
 catgcaatta cggtgcccc tttggcgccg ccagcacgc tctatcgaat gccccgcca 240
 ttgccaggaa tggcggaag accgtccatg tctcatcca tgtcctcgca gcaacgatgt 300
 ggctctagct agcagctgct ccttcacgc cgcctccagc atcggcacca atctggagct 360

cctccatcgg cgtcaaaggc catcaaagca gcaagcaagc gtcaagatgt tatagcggat 420
aatacacgta tgctatgttg catgtatgta tgtgcttatg tatctttatt tatcaagcgt 480
gaagatgctg ttatatcgga tatataatat acttatgcta tnttttgc 528

<210> 1150
<211> 543
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189119h02b1
<400> 1150

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tcttccta at gccatgaatg ctgctgaaat caccgacaag cttgggtctgc actccctgcg 180
ccagcggtag tggtagattc agagcacttg tgcgacgtct ggcgaagggg tgtacgaggg 240
acttgactgg ctcttcaaca acattgccaa caaggcttga agcgccttga caagtgcttc 300
atcaagaaac aaacgtgctg gatgtctcaa caactcactg ctaccatttt acatattgtg 360
atatatatac actgtacaag agatagtagt tgtgctgatg tgacaggcca taatctccct 420
tctttaagtg agctagtatt taggtagggt ggctcttttt gtatggaatt tatcagttgc 480
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gtt 543

<210> 1151
<211> 314
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189119h03b1
<400> 1151

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gtcttgagct tcgtactact gtctactagt gcttgtaact ttcttttctt atccccgtct 120
gctcactgca tgctagcgag tgatgggtgt gtatgtgtgt actttgtgta cgctccatgt 180
gtaaattctc gcgtgtgtgg tgtggtgttc accatgttta accactctac tatggtgaaga 240

cactcttcac ctcagagtct gcttttcctt ttataacata agattttctgg gtgggtctttc 300
tattggattc cagc 314

<210> 1152
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189119h04b1

<400> 1152

ttgggaggac gcggggggtc tgtatgggag ctttcgagac tgtctccgat gacgtcgccg 60
ccatcgagcg cgcgaacgag gccgcacgag ggcagggagt gtgggtgggag ctgctgatca 120
acccgagccg gcccgtagcg cgcattgctc tgcgggcct tgggtcatg ttcattcagc 180
aggccacggg cgtggactgc gtgggtgatgt acagcccgag ggtgttcgag aaggccggga 240
tgaagaacag gaccaactcg ctggggggcga tcatggcgag ggccgctgc aagaccttct 300
ttatcccgat cgcgacgctt ctcttgacc gggtcggtag gaggccgctg ctgctagcca 360
gcggggggcg gatggacatc tttctgttca cgcttcgcac gtccctgctt atgctcgacc 420
ggcgggccg 428

<210> 1153
<211> 404
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl1189119h07b1

<400> 1153

cattcgatgg cccaatgggg cttggggact ttttagggc acttggcatg aaccggacct 60
gctacagaat gtgaagaggg tgagtccatg gctggttgag ctggtctcaa acatgccggc 120
cattcacctc gctccgttct cgccgcctcg gaagaagctc tgtgttccgt tctacccga 180
cctcccggtc gacggccagt ttccggcccc gatgttccac ggaaaccac tcggacgcgg 240
cggcgctcgg ccatgtgtct attttccgga cggcactcct gcaggcatac agggagccag 300
gcatgtctaa tttggtatat ctctatcaga tctccacctt aacaaactgc agtcgagtct 360
gtcaccgcac gggcttcacc aggtcgatca cggcgggcag ccga 404

<210> 1154
 <211> 279
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189119h08b1

 <400> 1154

 ggactgcatc ctctccgggg gcacttttac atatcacact gctcgtcctt gcctccgaac 60
 aattacatct acagaccacc ggatatgtgc gcgcgccgcc ggttaccgag cgccggccat 120
 gttggtgcat ggcgggtaca cggagcactt cgtgggcagg ggggccagtc ttgcccgcag 180
 cgttttaagc gccacccgcc gccttctcgc tcaccgactt cgctacggag tcagagcctt 240
 ctctctcttc cttctcatcg ggcaggaaga cgcgccccg 279

<210> 1155
 <211> 420
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189119h09b1

 <400> 1155

 caacctcacc gacttcgggg tcgcctacgc cgttcgccgc gtcgtcaggg cagccgcgga 60
 gggcatcgcg cggtgcccgg gctgcaagac cagcctcatc accttctgc ggacctactc 120
 gcccgaccac ttcgagcagg gctcgtggtt cgacggcggc tactgcaaca ggacggcgcc 180
 gctgcaggag cgggaggtga gcatggagag catcgcgtgg gagctgagga ggggtgcagag 240
 ggaggagatg aggcgggtga gggcgaccaa gaggagggtc ggggtgctgg acgtgaccaa 300
 ggccatgatg atgcgcgccg accgccaccc cgacaatcac ttcgacagca ggtggaggag 360
 gaacggcagc gactgtttgc actggtgcct gccggggccc gtcgacatgt ggaacggcgt 420

<210> 1156
 <211> 425
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsfl189119h11b1

 <400> 1156

ctccctgatg gtcttatgag ggccctctgat gttatgatcg ctggcacggg tgctgaggtc 60
 tgcgggttatg gtgatgttgg caagggctgt gccgctgcac tcaagcaggc tgggtgcccg 120
 gtgatcgtga cagagattga ccccatctgc gcccttcagg ccctgatgga gggcatccag 180
 atcctcactt tggaggacgt tgtctctgat gctgacatct ttgtgaccac cactggaaac 240
 aaggacatca tcatggttga ccacatgagg aagatgaaga acaacgccat tgtctgcaac 300
 attggtcact ttgacaacga gatcgacatg aacgggctcg agacctacc tgggtgtcaag 360
 cgcattacca tcaagcctca aactgaccgc tgggtcttcc ctgagaccaa cacttgcatc 420
 attgt 425

<210> 1157
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120a01b1
 <400> 1157

ttaagtttaa gagcagtgtt tgcctttttt gtgcttgtgt gtgatcgaac atactagact 60
 gctattgagt ttctactact tgccacctgg tagtattaaa aatggttctg catataggag 120
 tatagtcgta ctgcctatgg acttgagtct aacagggatg catatcgtcc gacaaagtaa 180
 ggcaatgcga ttatgcactc ggtaaggatt cgagaaaccg gcagccattt ttcagttatg 240
 aaaagacggc gcacagagtc ctcttccggg tgagaaaaaa aaaaaataag accagaatcc 300
 atagacatta tactgagcca agctgttatc ttactgtttg aatgaaatga actacttttc 360
 cttttttcca taaaaaaaaa aaaaaaatat ggcttctttt ttggggggcc cttt 414

<210> 1158
 <211> 95
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120a02b1
 <400> 1158

ttatgcctt ggctatcgca gtcccgattt ctgtatatca tcgcccgtgc catcgtctcg 60
 tgaatggtag cagaatttgc acacgtttgt tctat 95

<210> 1159
 <211> 482
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189120a03b1

 <400> 1159

 cggccccag ctcaaggccc tgagggagtc caggaagttc gcgctcggcg gggccctggc 60
 cggcgccgcy cacctcggag gcgttggctt caagtactcc aagagcccg c acggtgtcgt 120
 gctggcgacc gggttcggag cgctcacagg cgccgggctc gggtcggagg tgggcgagca 180
 ctggtacgag ctctacaaga tggacaagca gggggccaac ctacaggttca tctactggtg 240
 ggaggacaag gtgtcacgcc agaagaactg aagaagactt ctgcataagc ttatgcctgt 300
 ttcagcatac tggtttgaca agacaatgat gtctccagtt tgggatttct agtttttact 360
 tcctaggctc tttccaataa ggagcatatt ggccatcaac tggacaatgg attttattct 420
 ctctactatg ggctgctctc aggttctcta tgatgttcat gtttgcacct atcgaaaact 480
 aa 482

<210> 1160
 <211> 328
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl1189120a04b1

 <400> 1160

 ctaggatatt ggtcagcaat tgatcttttt tggatgttga tgaagctctt tcagaagctc 60
 agaaatactg ctgcgtagtt tccttgtatc aatgggaaac tggggcttct gtttttgttt 120
 ttggtttccc aacgttggat gaataatgtg tacctaaagt taatcaaaca aaatatgttc 180
 cccttgcaaa ttatttacct tttccctcct tgattgtttg tgaacaatgt gtgatgtttg 240
 ctgtatctat tatggatttt tatatggata tacttaaaca aaaatgaaaa actttcaata 300
 actgactttc aaggttgtca acagatat 328

<210> 1161
 <211> 443

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189120a05b1
 <400> 1161
 cacctcttct tcttcttcca tagtaacca acccaccctt tgccaagatg tataacgctc 60
 cgtcggggca ggagatgtcc tacacggagc acgtgcagaa gcgccacgag gagaagggct 120
 gcatctacgc atgctgtgtc acagcgtgtg gctgcttctg ctgctacgag acatgcgagt 180
 gctgcctcga ctgcctctgc tgctgctgca actaaaccgg acatggccgc catggacgga 240
 ggccgcaagg cgcagaggag atccaccggc ctccgccgcc tttcataata agcatatgtg 300
 tctagtgtct tagctcgatg agaactgtat cacaactttg ctataatact atctgtcctt 360
 gtaatcatcc atcatggttt gtgttggtgc tgctgctcta ccattttaat ttaattagca 420
 tcagattatg gttctcacca aat 443

<210> 1162
 <211> 219
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189120a06b1
 <400> 1162
 aactcccaaa ccgcaatggc aaaacgccta gccgaaaaag catcctgctg ctggtcctgc 60
 tcgatgcggc gaccctttta gagctccatg ggaagcacgg tgctggtagc gccgtaagag 120
 atatgaaggg tgcgacgcaa gaccactggt tggcggcacc ttttgaaagc ggggggtactg 180
 gcaaaacctg gcgggacccc aacatagtgt attggggggg 219

<210> 1163
 <211> 440
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189120a09b1
 <400> 1163
 gcttcgagcc agggcggttg gcggcagttt gcggggacga tggtcgggat cttctccagg 60
 ttctcttccg gcgccggcca ccgccgcgcc aagaagtgcc gtggaggttg tggagacatt 120

ggcgcccaac atggagaccg gggagtctga cccggcagct gatcctggag atagcccgca 180
 cggcattgag gtcggcatcg agttcaagcc ggtggagcac cctgtggagc ctgtcaacct 240
 tgaccaacca gtgaaatgcc cgcttgctga gccatctata ctgcatgatg ggaggatatg 300
 gcaagagagg atgtctacag cgggcgggag gccgaggacg gacctgccgg tcgtgaagga 360
 aggattgcag ctcgagcccg acagcagcac cacaaggctg aggtctgcgg taccgaggcg 420
 cgccatactg ccctccgtga 440

<210> 1164
 <211> 143
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120a10b1
 <400> 1164

aaaaacgggg aagacaaaaa gaaaaaaaaa cgcgtgccca catggctggg gcggcctaca 60
 tgggtggcacc cccggggctt tcccgggcgg cgcaccaccg agggccttga tggggcaacc 120
 ttgaacgagc cgtacttaat ctg 143

<210> 1165
 <211> 77
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120a11b1
 <400> 1165

aggggccgtc ttcgaggcgg gttgtggggg gaatgcagcc caaatcgggc ggtagactcc 60
 gtccaaggct aaatata 77

<210> 1166
 <211> 157
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120a12b1
 <400> 1166

aatggaaacg cgggcgtcta gagagaagtg tccattgggtg gcatggaacc tgtgttgcaa 60

agagataata acaaactagc tttgcttagt gggaggggct gtcttccatg ttatctgcct 120
 atatgatttg acaaaaactac tcgcaagttt atctgcc 157

<210> 1167
 <211> 77
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189120b01b1

<400> 1167

gacaccccct ggggcggttc atgaagcgcg tagggggact ttgttacgcg ctggatgtcc 60
 gttccacttg ccagggc 77

<210> 1168
 <211> 211
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189120b02b1

<400> 1168

atgcgcggac gtgatgccac gtaatgggtc tcctatagtg aaacctaaat caattaatgg 60
 acggctttac aacgaagcga ctgcgaaaac catggtgtta cccaagtaaa acatcttgct 120
 gcacatacct gtttggtcag ctggcggaat agctaagagg gccgtaccga tcggccttcc 180
 aaacagattg gcaaactgaa cggggaatgg t 211

<210> 1169
 <211> 442
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189120b03b1

<400> 1169

gctagctacc ttgaggaaat ggccgttgcg acggcaatgg tcatcatgct ggcggcgctg 60
 gcgatcctcg cgccgtccgc gcgggggctc gaccggaccg agttcccgcg cgggttcctc 120
 ttcggcgccg ccacgtcttc ttaccagatc gagggcgcggt acctggagga cggcaagggc 180
 ctcaacaact gggatgtctt caccacacc cagtctaggg aaatcaacga tggacggaac 240

ggagacgtgg cggatgacca ctaccaccgt tacatggaag acgtggcgat catgcatgat 300
 ctgggtgtaa actcctacag attctcgatc tcatgggcga gactcctacc aagaggccgg 360
 ctaggaggcg ttaacacggg tgcaatagct ttctacgacc gcctgatcgc cgcgctcctt 420
 gagaaaagga tagagccgtt cg 442

<210> 1170
 <211> 496
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189120b04b1

<400> 1170

cccacaacat ctgcgacacc tttctctacg agctgcaatt agatcatagc tgaggaggcg 60
 gcaatgacca ctgaggttct ctttgtggtt tctgattttg cggaagctga atgacaatag 120
 taatgactgg tggatccatg tttgcgtttg ctgacgacaa cgataatgag tttttacggc 180
 tgcacttgag ggtgatcgta tccatgctac cattctgcag tatcttgaga tttctacagt 240
 ggagtagtac acaactacct atcacaagtt tgagcttaga tgaacaacat gggcaccatc 300
 aaacggatag atcatgcgcc tgatgggtct catgatggag tagttgataa tggttatata 360
 caaaacatat ttgacagag gtggcaccag acgtcacaga gaggtaccgc gttcgggtcca 420
 acgaggagct ccgggcatgg tgggcggtgg ccatggcatt ggcctcatgg gtttactctg 480
 actgtcgccg ccattc 496

<210> 1171
 <211> 150
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189120b05b1

<400> 1171

gtgcagacct acggcatcag cagcgatttc catgaagcgc tggatgtccg acaccggat 60
 gacgtcgtgg taggaggagc ggcgatctg gatgggtgtg tggccgcggt gcgctgcgc 120
 gaggcacagc gagcagagcg ccgacgcgcc 150

<210> 1172
 <211> 320
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189120b06b1

 <400> 1172

 aaaaaaatgg gaagggataa attataaaaa aaaaaacagc aatgacaaaa cgacataaac 60
 aaagagctac tgatgatggt cctgctcgcg ttcaaagacg cctaagagct gaatgggaag 120
 cacggcgctg gtagtgccgt cagcgagatg aaggctccgt tgcccgaccc cggggttgccg 180
 gcaccgggtg ccgcgggggt actgccaccg gttgtcggga cagcatcatc ggttatcggg 240
 gggacctgat ccgtttcaaa agggtaact gcctcaagtt cagcactgtt aaattattgt 300
 cccctctgca cagcaaatgg 320

<210> 1173
 <211> 484
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsfl189120b07b1

 <400> 1173

 gtgggcttac aacagcggca ccttcgtttt tctgctcgcg ggccctggtga ccacctggtc 60
 catcgcaaag acattgacct agagctcttt ctgaggcaac aacaatggtg gctttcatga 120
 acccggaag catatacaac tagaggaatt ttattttttt gctcgagtga cggtaatgcg 180
 caaccagtg agacctgttg cagatttggt cattggccgt ctcttattag gtgggtgatt 240
 agcagtagtc gttagtgtca tactactcta gcttgtagca tagtatatgc tatttttcac 300
 cgtgtggtca actcctatct ggtttgctgg tgtacgctgt gtagctatgg gtattgtatt 360
 tggagggcag atctcatttg ttcatctca aggggtgttt ggtagctgcc atgattggtc 420
 tgtgtaatgg ctttggttg ccaatggaaa atgcatacat tcacttgat acgcaagttc 480
 tggt 484

<210> 1174
 <211> 378
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl189120b08b1
 <400> 1174
 tgggacctca cgcgcgcgt cttctctcgt ttgccagaac gtgagcctcg acctgggcag 60
 gttcggcgac accctccgga ggctgcactt ccgggggcg cgcacgttcg tacgtgacag 120
 ggcgctggat cgatcgcaac catcttctgt gactcttgtt cgacagcaca gaccacacaa 180
 tgtgttttgt ttatttggtt tgttttggtt gtgcacaaaa gaccatataa aatccgctga 240
 atactctgat gacgnaaaaa aaaaaaata taaaattaat ataaaaagaa taaatttaaa 300
 gaatataaaa aggagaaatt atctaacatt tgcaatattt tttataata aaaaattggg 360
 gggcgccgt tttaaagg 378

<210> 1175
 <211> 410
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189120b09b1
 <400> 1175
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 gaaaccggag gcgggctcgt cggtcaccgc cgttacaagc gcgagcggct gcatgtaaatt 120
 ctgtacatca ttacatgagc tctgactgcc tctgctgttg ttgctgcccg tgattctgga 180
 gctagtaaat atggctagtt tgcccgtgga atggtaggtt tcgatgcgct gcctcgacaa 240
 aaaataggtt cggtcgggcg cacctggaac atgaggagga tttgtggtga acgcgagctg 300
 tttgcaatgg tgtggaatgt caacaccgga ggcgtngtat aagtgttaacc catacctcac 360
 atgacctcac atgagaacga aaaataatgg agcatgttct gcaagcctgg 410

<210> 1176
 <211> 345
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189120b10b1

<400> 1176

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ttgcccaggagg tggctcagac ggagtgaagt ccgtgtgttt caacataatg cagtattcag 120

tcttgacgca gtatcttatg ccctcgggat cagtacgtgg tcttgtttgc cctcatggaa 180

tttgtagttt tggccggatg tctttgctcg tggtgctgtg gacattgtgc acggtaatga 240

gtggtagcat ccctagccac gggttgtatt ggcttagtgc ccctgttgat ttctgaatct 300

gaactgttgg ttgccacttt gcttcatctt ctctctatcc gnttt 345

<210> 1177

<211> 274

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189120b11b1

<400> 1177

cttgttctgc agtgcacctc aagcgatggt tcgaaagaca gtacctgtag attcatgtat 60

caacattgtc cctgtataac caaagtaaag agctgtcaag atgatgatat gtatttcaca 120

aaanacaaaa aatgagacca aaaaagaaaa aaaaaaagct aaaaacataa ataaaactgg 180

gggggtccgct ttcgaggatc ccagtttccg tcctcgagcg tgccacgtca tatcttttct 240

tttgtgtggc ctacttagat tttacttgcc gggg 274

<210> 1178

<211> 485

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189120b12b1

<400> 1178

aactaccatt gggccaacat tcccaacaac cattctttca gcctcaggaa cccaacaac 60

catttcccca gtcacaacaa ccacaacaac cttttcccca gcccacaacaa caatttccgc 120

agccccaaca accacaacaa tcattccccc aacaacaaca accggcgatt cagtcatttc 180

tacaacaaca gatgaacccc tgcaagaatt tcctcttgca gcaatgcaac catgtgtcat 240

tgggtgtcatc tctcgtgtca ataattttgc cacgaagtga ttgccaggtg atgcagcaac 300
 aatgttgcca acaactagca caaattcctc aacagctcca gtgcgagcc atccacagcg 360
 tcgcgattc catcatcatg caacaagaac aacaacaagg cgtgccgatc ctgcggnac 420
 tatttcagct cgcccagggt ctgggtatca tccaacctca acaaccagct caattggagg 480
 ggatc 485

<210> 1179
 <211> 276
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189120c02b1

<400> 1179

gcaagatggc cggaaggaag ggcggcgaca ggaagaaggc ggtgacccgc tccgtgaagg 60
 cccggcctcc agttccccgt cgcccgcatc gggcgtttcc ttaagaaggg ccgctacgcc 120
 cagcgtgttc ggctccggcg cccccgtct acctcgccgg cgtccttgag gtacctcgct 180
 gccgaggtcc tggagctcgc cggaacgcg gccaaaggaca acaagaagac ccgcatcatc 240
 ccgcgccacc tgctgtttgc cgtccgcaac gaccag 276

<210> 1180
 <211> 461
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189120c04b1

<400> 1180

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 gtcaaggcta cttcagtact caccaaactc gcgcttcaca gctgtcgatg cttgtgcca 120
 tccgttcttc gatgaactgc gggatcccaa gacctgcttg ccaaatggac ggccattacc 180
 accattatc aacttctcgg gagctgagct agaaggcctc cctgttgagc tactccaccg 240
 gatcattcct gaacatatga ggaagtgaag agagatggcg gctggagaag cggctcgctat 300
 ttctcggcgc cactgtgcgg gtggagaccg gacaccgca gcatatccat ggctcgtcgt 360
 ggatttgatc tggagtagac tccccggctg gcctggactg gcctggagct agagaagggc 420

aaccgcgggc atgtgccag gccccagacc caccacact g

461

<210> 1181

<211> 449

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120c06b1

<400> 1181

ctgcgggtac tccatgaacg cttcaactt atctgccttc tccaccatcc atgtgacccc 60
cgaggacggc ttcagttacg cgagctacga aggcattggg catggacgct tcggccctgg 120
cctatggcga catcgtcaag agggctctcc ggtgctttgg cccttcagag ttctcagtgg 180
cggtcaccat cttcggtggc cgcgcccatg ccgccacctg gggcaagaag ctgcagcgccg 240
aggcatacga ctgcaacaac gttgtggagc aggagctccc ctgtggaggc gtcctcatct 300
accagagctt tgccgcgaac gaagaggttg ctgtctctgc cgggtcgccc aggtccgtct 360
ttcactgctt cgaggccgag actgtggaga gccacccgct ggtcaaggaa ggcaagctcg 420
ccaacctcct cgcattggcga gcggaggat 449

<210> 1182

<211> 361

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120c09b1

<400> 1182

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gccaactac tgccgcaagt gtggcaacga cgggagccgt catgaccgtc gccggtgacc 120
tcgectgctc cttccgcgtc ctccaccctg atgatactgc cgctcctcct ccggctccta 180
tttatctgta gtccaacata tatatatatt catttttagtt tcagacgcct tgccatggag 240
tagtaatctc cagctcgtcg tgtcttcggt ttattaagag tgaatttcag tttttgaatg 300
tattgcagggt ttttgtccca ttttagctaaa gttttactac cagatttatt ttaccacatt 360
t 361

<210> 1183

<211> 514
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120c11b1
 <400> 1183
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 cccattccct ttcaaaggaa attctttgac tgggattttg cctgccattg atgtcataac 180
 caagagcctt attgttgga tattttactt tgttggaatt ggattgttct gccttgaatc 240
 actgctgagc ataggtgtca ttcagcaagt gtacatgtac ttccgtggaa gtggaaaatc 300
 ccaggagttg aaacaacagg cagcacgtgg tgccctgagc tctgcgttct gatgaagaaa 360
 accagcagcc agagttgtag ccagggtagt gagtggaagg agacaggatg tgtgccgatt 420
 ggaaatggta gtcttgcgca tcgctgcacc atgcggattt ggatcgctga aatcatacag 480
 ctatatcttt ttgctcttct gttaatacaa atat 514

<210> 1184
 <211> 144
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120c12b1
 <400> 1184
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 atgtgatgca taatttgatc gtcctgtgat caaaagacat catatataag tttaataata 120
 ttttcatgaa cagtttacct tttt 144

<210> 1185
 <211> 393
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120d01b1
 <400> 1185
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cttgtctgagg cggcaactgc ggggtgcggcg cctgtctgcaa gtgcgggcaac ggctgcggcg 120
 ggtgcaagat gttccccgac gtggaggcca ccgcccggcg cgccgccatg gtcattgcca 180
 ccgcctccca caaggggagc tccggcgggt tcgagacggc cggggagacc ggcggctgag 240
 actgcaccac ctgcaagtgc ggcaccgctt gcggctgctc ctgctgcagc tgcaactgag 300
 ccggcgccca ggaggccggc cggcagaggc gagcacgagg atgaggagga caagcaagca 360
 agcaccatca ccaccagttt accaccaccc agc 393

<210> 1186
 <211> 386
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189120d02b1
 <400> 1186

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 aagccaccac gccaacgctg tgccgccgcc gaacttttgg agaggagacg cggaggacgg 120
 caagatggga ttcgagaagg agatcctgaa agccggcacc ggccccaagc ccgtcaaggg 180
 ccagaaggtc accgtccact gcaccggcta cgggaaggac ggtgatctgt ctaagaagtt 240
 ttggagtacc aaggaccctg ggcagcagcc attctctttc aacattggctc tcggttcagt 300
 aatcaaagga tgggatgagg gagtcatggg catgcaattg ggtgaagtgc cccgtcttac 360
 gtgcaccca gactacgctt atggat 386

<210> 1187
 <211> 404
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl1189120d03b1
 <400> 1187

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 aagtttcctt tgaatcagca cttgaacaaa ttgtggagct agcgaattca agatcaacca 120
 tgctctctag cttctcacag ataaagcgca gatcatgaat cgattgcctg atttgagggt 180
 ctgtaccctt gcacaccatc tattctcttt gtggagtatc agttatatgc aatcgacagc 240

gctcgtagaa aatatcataa tcctatttga aatgttgatg cacgtggaga tgtatgagag 300
 ttgtgttttg cgtttcatta tcttgctgtt gaggcaagca ctatgtctgc atattgacgg 360
 tttccttttg ggaaatcaac ggggaaactt gttcttctga aaaa 404

<210> 1188
 <211> 494
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl1189120d04b1

<400> 1188

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 agctgagggc aaagctagag aagatcgatg tgaaaatcga tgacctgaag gcgaagaagc 180
 aggagattgt ggctcgactc ctcgagctcg agggtaaggc agcagaggct gcagcaccag 240
 cgagcggctg aggtttcgac aggttgttgc cttgagaaga atgaaacagc tttcaggcaa 300
 tgcattgcagc tagtgacatc ttattattgt tctttcgatt ggcatattat tgtgctttaa 360
 tcttcctgga gctacatatt tgcattccagc attgcatgat catctagatt tgggtgcacac 420
 aagtgtccac cttgtatcga atccccgggt aactgtggca tgaatgtacc tcttaaagat 480
 ccacntttaa ttaa 494

<210> 1189
 <211> 565
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl1189120d05b1

<400> 1189

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 ggtggtggcg gcgctgatgc tggcgctggt ggggctggcg gcggcgccgg gcggggcgca 120
 cgcggcgtgc caggcatcgc agctggcggg gtgcgcgtcg gcgacctga gcggggccaa 180
 gccgagcggc gagggtgctg gcaacctgag ggcgacagc ggggtgcttct gccagtacgc 240

CCS: 561636

caaggacccc acctacgggc agtacatcct gagtccccac gcgcgcgaca ccctccagtc 300
 ctgcggcctc gccgtcccc actgctaggc gccggcagge ccctggcgca tatggcaagc 360
 tagctgcctc agtgaccatg agagcgtcag actatagcta gccctagctg agtgcggtgtt 420
 gcgttcatga acgcattctc ctgtcaacca tgtgggttga ctttgatgat gctggaataa 480
 aaatataaaa tgttgggtga tgatctaccg cggncatggt gcttctggct gctgctgctg 540
 gtaataaaat ataggtgcaa ctttg 565

<210> 1190
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120d06b1
 <400> 1190

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 caatgaacca cggacaccaa ggcgtagta cgctggtgtt tcggggcgaa aaatcaataa 180
 gatgggtcgg tgaaacagag gatgcttagg gacgaggtct tgtctttgtg atttgtcaga 240
 ctcggtgtta attccgatgt ttatctttag ttttcttggt ttagcgtatt ttgttcatgc 300
 cacctgcccg ccatgtgctc tgctctgctc tgctcaccg cagcttcatg gatgatgaat 360
 ccttatggaa caagaggagg gaataaaaag gttgagttct ttataaaaa 409

<210> 1191
 <211> 548
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120d07b1
 <400> 1191

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 tgaagttcct gaagcccggc aaggcgggtga tcctgctgca gggcaggtac gccgggaaga 120
 aggcggcgat cgtgcgcgtg ttcgaggagg gcacccgcga ccgcccctac gggcactgcc 180
 tcgtcgccgg cctggccaag taccgaaga aggtgatccg caaggactcg gccaagaaga 240

cggccaagaa gtcgcgcgtc aaggtgttcc tcaagctcgt caacttcacc cacctcatgc 300
 ccacccgcta caccctcgac gtcgacctca aggaggtggc ctccggggcg cccgactccc 360
 tcacctccaa ggacaagaag gtgggcgcgc ccaaggccgc caaggccaag ctcgaggaga 420
 ggttcaagac cggcaagaac aggtggttct ttaccaagct ccgcttttag gcctgcaggc 480
 cgaccgcgca gggcggttct ctgtcgact accttgaccc gttacatttt agctgcttgc 540
 tcttgat 548

<210> 1192
 <211> 542
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120d09b1
 <400> 1192

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 gtgggtttgt tgcattcaac tctaaggatg accctgcaa ggaggcagcc aacttcacct 120
 ctcaggatcat catcatgaac caccctggtc agatcgcaa cggctacgcc ccagtgtctg 180
 actgccacac ctccacatt gctgtcaagt ttgctgagct ggtgaccaag attgacaggc 240
 gatctggtaa ggagattgag gctgcgcca agttcctgaa gaacgggtgac gctgggtattg 300
 tgaagatgat tcccaccaag cccatgggtg tggagacctt cgccacctac ccacctcttg 360
 gccgttcgc tgtgcgtgac atgagacaaa cggttgctgt tgggtgtcatc aagggcgttg 420
 agaagaagga cccaccggc gccaagggtta ccaaggctgc catcaagaag aatgagtg 480
 tctggtgtct gccatcgagt tatctagcag aagttttagt gtcaagtctt ttttgagaa 540
 tc 542

<210> 1193
 <211> 365
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189120d12b1
 <400> 1193

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ggtgtcgtac gggtcgccgc cgccaccgac ggggccgtag aaatagctgc tagctaggta 120
 gcaccactag ctagccgcgc cgcaggctga tctatcgcc cgccgccac ctccacggcc 180
 ggatcgctcg tcgtcagcca gccagccagt cgtccgtcc gtctgtccgt ccgtccgtgg 240
 ctgctccgtc accagtacat ctctgctgt agtttcttgc tctcctctc tcttgaacg 300
 ttattttttg ttctctgttg tccatttgtt atgtcgctat ttgatccgaa ttaaattctt 360
 nccac 365

<210> 1194
 <211> 373
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189120e01b1
 <400> 1194

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 aagggtgggct cccgcagcgg cacctgctcc aagcaagtcg tcatcgccga ctgcccag 120
 ctctagatcc gtccgcccgc cggtcgcctg tcgtcgtcgc cccgtgtccc gtgtcgtcga 180
 tctaaataag agagtcgtgt gtcgtgtcgt gtcttccct tgtccgtccg atgagatctc 240
 cgtggttggt ttaggagggg tttaggtgga ctcttttggc cgctggatct gtgtccggcg 300
 gccatggta tcttctgtg tctgctgcta tcttactgtt tgaatgagat gaactccgct 360
 atgaattatc cat 373

<210> 1195
 <211> 507
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsfl189120e02b1
 <400> 1195

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 tggcagtggt ggtgccgtcg atgacgatcg gccccgcgct gcagcagaag ctcaatctgg 180
 gcatgcctt tatcaaccgc tacctcacgg gcgccaagaa gacctgcccc aacgccgtgg 240

ccggctacac cgacgtccgc gacgtcgccc gcgcccacgt cgtcgtctac gagcgcccgg 300
acgcacgcgg caggtacctc tgcattggcg ccgtgctgca ccgtgcccac ttctccagc 360
tgctccgaga ccttttcccg cagtaccca tcaccgaaa gcgtgaagat gacggcaagc 420
cgatggccaa gccgtacagg ttctccacca gaggtgagg gacctcgggt tggagttcac 480
tcccctcaag agagtttgta cgacatg 507

<210> 1196
<211> 397
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189120e03b1
<400> 1196

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gccaccgctg atgtccagaa cccgacggcc gcgctgacgg aggaggcgcc cgcggtggag 120
acgcccgtcg ccgccgagga ggccacgaag acggaggagg tccccgcgcc ggccggaggcc 180
gaggtcgagg cgcttgctcc cgtcgaggtt gaggagacca aggaggaggc gccggcagcc 240
gctgagacgg aggagaccaa ggagcccag ccagcagctg ccgccgagcc ggaggccgag 300
gcgcccagg agccagaggc gccagccgtc gtcgaggcag agaccaagga ggccgtggct 360
gaggcagagc cggcagtcgt ccaggaggtg aaagaag 397

<210> 1197
<211> 419
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl1189120e05b1
<400> 1197

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gttgatgttg agaatttcgt agaagacgtc gatggcgggc atgaagatgg caaagatgtt 120
aaactgaatg caagtgttg tgtgaagaga ggcaggccac tgaaggagag cccaacatc 180
gtcctggaag agaacagcaa ttccagcgtt cgatcaagca gcgatgaatc ggccaggacc 240
aatggattca ggcagattgg gaaccggagg aagagcacgc caggcgagc agcgggaagc 300

ggcctagaat gcaagtgatc gctgagcaat gccatgccaa tccatacaat ttttggcacc 360
 aggtagcctt cataattttg tttaaatgta aacatgacat gcaactgagtg ctgaaattc 419

<210> 1198
 <211> 248
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl1189120e06b1

<400> 1198

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 tcgccgtcgc gctcctgctg ctggctctgc tcgcgtccag cgacgcggga gagctgaatg 120
 ggaagcacgg tgctggtagt gccgtcggcg agatgaaggc tccgttgccc gaccccgggg 180
 tgccggcacc ggttgtcgcg ggggtactgc caccggttgt cgggacagca tcatcggtta 240
 tcggggggg 248

<210> 1199
 <211> 407
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl1189120e07b1

<400> 1199

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 ctgatcgcgg gcgaggagtt ccagcacatc ctgcgtgtgc tcaacaccaa cgtcgacggg 120
 aagcagaaga tcatgttcgc gtcacctcc atcaaggggtg tgggcccgcg cttctccaac 180
 atcgtctgca agaaggccga catcgacatg aacaagaggg ccggagagct ttccgcggag 240
 gagatggacc gcctgatggc ggtggtgcac aaccgcgcc agttcaaggt gccggactgg 300
 ttctcaaca gaaagaagga ctacaaggac gggaggttct ccaggtcgt gtccaacgcc 360
 gtggacatga agctcangga tgaccttgag aggtcaaga agatcag 407

<210> 1200
 <211> 392
 <212> DNA

<213> : Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189120e08b1

<400> 1200

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tttgttgaaa ggctacatcc cgctgcatg ccccatgnaa cttttttgtg aagcaatata    120
gcaaattgca gttcgcgtcgt gaagctgagg aaggattcca agagaagaga atgaggctgg    180
gcgggatagt tctccgatac aattaccctt tggaggagca tgcaagtaaa gtctataccc    240
ggacaatgta cgagatgttt ggccaggctt tgtatcggtc tggtaggtat gatgttgagg    300
aagttgagcg gggcataacc taccacgtgc gacatgttga agctgaaaag cgagagaagt    360
ggtgccgtga aatgcatgtg gttagtgtgc at                                     392

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<210> 1201

<211> 436

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189120e09b1

<400> 1201

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tgtacatcat tacatgagct ctgactgcct ctgctgttgt tgctgcccgt gattctggag    180
ctagtaaata tggctagttt gcccggtgaa tggtaggttt cgatgcgctg cctcgacaaa    240
aaataggttc ggtcgggcgc acctggaaca tgaggaggat ttgtggtgaa cgcgagctgc    300
ttgcaatggt gtggaatgtc aacaccggag gcgtngtata agtgtaacct ataccttaca    360
tgaccttaca tgagacgaaa aataatggac catgttctga aagcctggaa aaaaaaata    420
aaaggggcgg ccgttt                                                    436

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<210> 1202

<211> 333

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120e10b1

<400> 1202

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gtcgcggggc tccagctgac tgtgtcggac tccgagctgt cgtcccgggg ctctcgggtg 120
cggcgcaccg cggagggcct tgacgtggcg gcgctgaacg aggtgttcgc gcgctgggg 180
ttccctcggc ggcaggagga gcggctccgg cgcgcgctgg agcacaacga ggtggcgtgg 240
ctggcgtctg aggcgacagg gcgccccgtg gcgttcgcgc gcgcgcccg cgacgggggtg 300
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<210> 1203

<211> 365

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120e11b1

<400> 1203

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ccatatcatc atcgagtgac gtcactaccg gaatgggcgg ctactgagaa gatgagagct 120
ctagtatccg aaaaatggac caccaatgtt tagtcaatgg tccgatccat atgtagcggg 180
gaaaaataaa gtgccatgca ttatcatgtg tggactagac tggcactagt tcaaacttgg 240
gaataaaagg caaactaagt tattttctgc tgaacgaatt catcgaccgg gcgttccttc 300
ccaaccaaag ccaaggcggg ggtccccga aaacgacgct ggcacctagg tgcccgacgg 360
cggtg 365

<210> 1204

<211> 132

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120e12b1

<400> 1204

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gcacaccgag ctctaggacc tcaccttcca tgtatgacgc actgatgttt actaaatagg 120

ctggaatttt tt

132

<210> 1205
<211> 331
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120f01b1

<400> 1205

atctctctct ctctctctct ctggtctctt ctttatcttt atcggtctct ccatctccct 60
gtggagggat ggatcatact gctctgcgtt tcagttggag attaaacgga tatttggggc 120
ttctctctat tgcattgcatt ctgacgttct cgtgcattggg acattcttagc tattatatcg 180
aggcatctag agctgatatc ctgtccgaac ttttacaagc actgcgtgct taataacctt 240
gacgttacct aagtttatag gggctggcta catccacttt tatctggtgt cgtaatatat 300
agggggcacg taccagatcg cgttcccaac a 331

<210> 1206
<211> 473
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120f03b1

<400> 1206

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ggtgactttt taactgttga tattgagaag ggtatgcaag atggacagga ggtttcattt 180
ttcgaggaag gagagcctaa gattgatgga gaacctggag acttgaagtt caggattagg 240
acagcaccac atgaccgctt cagaagagaa ggcaatgacc tgcattgcaac agttacaatc 300
tcctgtctcc aagctctggt tggatttgag aagaacctca agcatcttga caaccatctt 360
gtccaaatcg gtcaccaagg tgctactaag cccaaggagg taaggaaatt caaaggagag 420
ggcatgccat tgcaccaaag caacaagaaa ggcgatctgt atgtgacgtt cga 473

<210> 1207
<211> 408
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120f04b1

<400> 1207

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ctcgtagcta gcccgttct agctagcctt ttattcttat catagcttgc ttaccctttc 180
atttcatcta gtcgcggcag tcgaccaact ggtagttgac gttgaggtgg ccctgctggt 240
acccgacccc gatggtgtcg atcttgggtga agacgggtgc ccattccagg ttcagccccg 300
cgttggcgca ctggttcacg atcctcgctg tcacctgcgc ccccgttgcc gggttcttta 360
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<210> 1208

<211> 359

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120f05b1

<400> 1208

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gccagcaaca ttacagtga cagaggatcc aagatccatt gcattttaga tacaccatc 120
cgattagatt tgagaacacc gtgtaacctt ctgcatcgct tgcagtcgat tctacttggt 180
ttcgtgtaat ttgtcatgta gaaacaaaca ctagttcttc tgttccgtag agagagtgca 240
ttggagggca aggagttggt tgtctgtact acctgatctg gggggaaatc tatattatca 300
caattttttg ctgtttccaa aaaaaaaaaa aataaaaata tatttaatat aaaaaatta 359

<210> 1209

<211> 438

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189120f06b1

<400> 1209

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ttccaggggc tcaagtccac agccggcctg cccgtcagcc cgccgctcca gcggcagcct 120
 cggcagcgtc agcaacggcg gaaggatcag gtgcatgcag gtgtggccaa ttgagggcat 180
 caagaagttc gagaccctgt cttacttgcc acccctctcc acggaagccc tcctgaagca 240
 ggtcgactac ctgatccgct ccaagtgggt gccctgcctc gagttcagca aggttggtt 300
 cgtcttccgt gagcacaaca gtcccccgg gtactacgac ggtcgatact ggacaatgtg 360
 gaagctgcct atgttcgggt gcaccgacgc cacacaggtg ctcaacgagg tggaggaggt 420
 caagaaggag taccctga 438

<210> 1210
 <211> 167
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsfl189120f09b1

<400> 1210

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 ncgngtcgtt tagcgttttag ctgtgctcct tccagatcga agtcgttgtc tgtctgtgta 120
 atgtttacct ggtactgatt cagtcatttg gacatggtgt ttatggt 167

<210> 1211
 <211> 115
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189120f10b1

<400> 1211

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 gttcgtcgta ttattatgct ttgcaacaag ccatctgatg attattatgc tgttg 115

<210> 1212
 <211> 386
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189120f11b1

CCS: 189120f09b1

<400> 1212

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cgtcgaccgg gggccgcccgc ttgcttgctt gcttgcggt tactgcttg tcttgtgtcc 120

tggttaatct agcttcttga tctgtattga ccttcccttc ccttccatgg gttctcgatc 180

tttttctct gctaccgccg ctgtatgtac gctgcttggg gctctgaggt gtactccatt 240

cctccccgtg tatccggtcg atccgcatgt agatgggtga tacctctggg gtatgtgaat 300

gaacagagct gtttcgttcg aaaaaaaaaa aaattaaaaa aaaaaaaaaa aaaaaaaaaat 360

aaaataaaaa aaataaaaaa tttttt 386

<210> 1213

<211> 97

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120f12b1

<400> 1213

aaaaaaaaa ggaaaaattt aaagggaaaa attaaaaaaa aaaaaaggaa aaaaaaaaaa 60

aaaaaaaaa aaaaaaaaaa aaaaataata aaataaa 97

<210> 1214

<211> 220

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120g02b1

<400> 1214

cgtaattgt gaaacaatac agatatttat ttacatgtgg agtacttacc taccagcgcc 60

cttgctaaac agtaatatcc tcccctctgg ctctggttcc ttcacttatt acagacatcc 120

gtcttcgtga gctactgaat tccaagacat ttaggagctc atattttctg taagaggatg 180

ctaaaggtca aatttacgta ataaacaata tcctttaatg 220

<210> 1215

<211> 377

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120g03b1

<400> 1215

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atgctagcca ctgccggcat gcagctcgtg ctgcgcttta cctctcaggt tcaccggcgg 120
cgacggcggg ggcggcgga ggtatctagc tagctaggcg ggtgttaggc cgtgtagggc 180
aactatacat ctttggcaat gtcttcttct tctcctcca tgggaggatt gtaatggagt 240
gtgtaaactg tgcgtgcac ccttgggctg ggctctcgtt cgtggaaact caccgtcttg 300
catttctacg accaatactg gtgctctggt gcctcgttga aaagaaatac tatactagt 360
ctcttgttgt ggaggct 377

<210> 1216

<211> 534

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120g05b1

<400> 1216

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aaggaggtcc tcttggcggc catgatgctg gcgctggtgg tggcggcgcc gggcggggcg 120
cgtgccgcgt gcgtggtggg gcagctgacg gtgtgcatgc cggcgatcac caccggtgcc 180
aagccgagcg gcgcgtgctg cgccaacctg cgcgcgacg aggcgtgctt ctgccagtac 240
gccaaggacc cctccctcgg cgctacatc cgagcccc acgcgcgcga gaccctcgtc 300
acctgcggcc tcgccgtccc gcacagctag gcgccaggcc gcctagcgag tatgtatggc 360
tcagctatag ctgcctccgc cgtccatcag atgagagatg agactatagc tagcctagct 420
ggtgagtgcg cgatgcgttc atgccgatg catccatggt cctgttcgat ggatgatgat 480
ggaataaaat aaaagatggt ggggatgatg ctggataaaa tgaccgactt gtgt 534

<210> 1217

<211> 471

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189120g07b1

<400> 1217

cctccccatc cccggccaag cgttagactt acaccgactc cgaggctctt cccctcgacc 60

cacccgcca ggcgcggc cccggcgccg acgaggaggg ccgcccgcga ggccaaggcc 120

cgggtcgcgg acaaggggaa ggggaagatg gtggtcgatg aggaggaaga aggcgacgag 180

gaaagcgacg aggaggagga tgacgaggag gtcgaggag atggcgacga gagtgcggc 240

ttatgcgagg atccccctc ggaggtcgac ctcaacaaca tcctgccctc tcggacccgc 300

cgctgcgccc cagcacagcc tgtggcgtag ctggcgccac cagaggaggc agcggaggat 360

gacgaggacg atgaggacgc atacgtcgac atggctcccg gggaggagag cggctacngg 420

gaggagagcg attagggtcg caactggact aactcgctgg caatccttcg t 471

<210> 1218

<211> 330

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsfl189120g08b1

<400> 1218

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ctccgtcgtc cgagcagacg gccacggcgg cggcgggggc catgttctcc tcctgcctt 120

ccggcgggcg cagggccacc tcaaccccat gctgcagctc ggccgtcgcc tcgcctacca 180

cggcctccgc cccacgctag tcaccacgcg ccacctctc gccaccgtcc cgcctcctt 240

gcccccttc cgcgtcgccg ccctctccga cggtttcgat gaaggcggca tggctgcgtg 300

cccggacttc cgggagtacg ggcgcgggct 330

<210> 1219

<211> 447

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: uC-tsfl189120g09b1

<400> 1219

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gagcgagcgc aatggcgacg gcggcaagga gcgcgccggg ggagaacggc aacggcgggcg 120
gcggcggagt gtccttgag atgccggaga tcaggtacac caggctcttc atcaacgggg 180
ccttcgtcga cgccgtctcc ggtaagacat tcgagacgag ggatccgcgc accgggggacg 240
tgatcgccag catcgctgaa ggcgacaagg aggatgtgga cctggcggtc aaagcggcaa 300
gagaagcctt cgatcatggc aaatggcctc gcatgcccgg atccgaaagg gggcggatca 360
tgatgaagta cgcggacctg gtggagcagc acgcggagga gctgaccctg ctggagagcc 420
tggacngccg caagccgcgc atggcga 447

<210> 1220
<211> 194
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189120g10b1
<400> 1220

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cagctgtagc tttgttgcca gataaaatgg tgaactttgc gtatctctgt tttggtttgg 120
catgctgaga gtattcatgc agcatcacat aacaatgttt agggcgttac ctctgattta 180
tgtgcgttgt tttc 194

<210> 1221
<211> 575
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189120g11b1
<400> 1221

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ggttctcttt gttgcttcta accggatagg aaaggaaact gtcgagactg agcatgggaa 120
cagcaccata aaattctacg ggaactcatt catcgcaggg ccaactggag aaatcgtgaa 180
gcttgcaa at gacaaagacg aggaggtgct cgtggcagag tttgacttgg acgagatcaa 240
atctacgaga cagggtggg ggatattcag ggacaggcgt cctgatctat acaaagtgct 300
actgacgttg gatggcaaga catcatcatc atcctagggt ccacttttat gaagacgaca 360

tgaactccag aatgctatac tgggaaaaca caggggccgt aagtctagct tccccctgca 420
aaagaaatgg tttgcctctt tgcaacgtat ccccggtgtt gcgactcggg gattttccac 480
caatagagca ttaataaaat actgtcatgt aagagaaata ttgctcctac aagtatgaag 540
attagggatc aaagcaatat aataatgatg catcg 575

<210> 1222
<211> 364
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189120g12b1
<400> 1222

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tacggaggcg gcggcgggtg cggctacggc ggcagccgcg gcggctccgg cggcggcaac 120
tggagggagt gaatggtggg gccctagct ggccagttat cctagttacc gatccctttt 180
ttacctgtc taccaaagtg ttatcgctcg ctcccagta ccctagatct cgctccatcg 240
cgtaggttcc gagatgttct ggctaccgtt agatgtgacg ccgctaccgt tccgtgttac 300
ttgttaccgt ccctgttccg ttcgctatga atgaaatgaa aaatcagagc aaaagtttgt 360
tcgc 364

<210> 1223
<211> 460
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl189120h01b1
<400> 1223

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cctgaggccg gccctaaatt tgtttgatca attcttttgc tactagtagt aactagtgat 120
gatcactgtt gcatcattta tttatttatt ttatatatca tcacaagttt cctgtgatcc 180
ttttctttct ataccttttt gtcgatcgtc ggctccagct cgatcgaacg atccatgctg 240
ctaattgttt gtgtacgggt gattaagtaa cttgtgcact tgtgcttaca gttaaaaaaa 300
atagagatta ggaaaaccct taagttaccc aacttaattt gctatgacaa aaatgccaat 360

tttgccagat agcataaatc ccaaagaggt ccccgactta tacttttccc aacaatatcc 420
taactaaggg gggccctttt taaaggatcc aatctttttt 460

<210> 1224
<211> 462
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120h02b1

<400> 1224

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cacgcctacc cctaccccaa gtgccccac acccgcgagc tttaccgcc ggtgaccgca 120
cccaattcgc tcgggtgttg gaggcactga cagcacaagc agcttccatg aagctgcgcg 180
gccaccccta gccccttca cctccttct cccacttgca cacatgagaa ggaattggat 240
cagagtcggt ccctcaatct aaaccaagag gagtgcccat tgaacatgat ggtgtgcaga 300
tcgcgagag ttgcatcgcc aagcgctgac tcatatcttg aagtgccatg gaggaaagct 360
tgtgaggatg caggggccgt tgggtggtgt ggacttatcg taggttgaac cacatcttgc 420
ttttcttttg tcaatctgct ctcttgtctc tctgagtcac aa 462

<210> 1225
<211> 130
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120h04b1

<400> 1225

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cggacgtgga tatctgttgt actgctataa tcgggacctt tatcttttgt ataaggcatg 120
gttgccattc 130

<210> 1226
<211> 273
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl189120h06b1

<400> 1226
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 tatctttctt atttgttcct aagaatatgt gtatgtccat gttcatgtac caacatggct 120
 cgagaaagca tgctcgtatg tgaatgctat cgggtggctat gtatatgcac ggacgcataa 180
 tattatacaa tatgtcaact atatacgttt taatggtaac caactcaaaa aaaaaaaaaa 240
 aaaagaagaa attgaaaggc aaaaaacaca aaa 273

<210> 1227
 <211> 415
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189120h07b1

<400> 1227
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 catggcagac cagttcaggg aagctcgacc acgggcggtg gaggtgtacg ctgaggtgct 120
 ggacgaagga tgtagcactt ggctactggg ggagcctcat gctccaggaa gcgtgtggtg 180
 gcagccttac cgaggcttat gcagtaacaa gcatccgcgc cccacgacc gaatacatgc 240
 gtgcctccgc aaggaagacg actcagacga gagaaggacg ttcaggagca cggcccggta 300
 cccatgacct ccctcagatt cagtgcagac tcgtgcaatg cgcatttttc ctttttgttc 360
 cccacatatt atgctgatga cggacgccac actactcgat ttggagcatt ttgat 415

<210> 1228
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189120h08b1

<400> 1228
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 ccatccccgc caaggaccga cgtccccgcc gtcgtctcgc ccgtgcccat acaagtacgc 120
 tctggtggcg gcacggcggc cgtctcgctt cgtctgcaag tgcaagaacg tcgtcaacga 180
 agtgattgtg gctgaccaga agaattggga taacatgggtg atcgcgctgcg agtcgccggt 240

gctggtggag ttctgggccc catggtgcgg gccgtgccgg atgattgccc cggtgatcga 300
 ccaactggca aaggactact tgggcaagat caagtgtgc aaggtgaaca cggacgactg 360
 cccaaacatc gcatccacct acggcatgcg gagcatccnc accgtgctca tgttcaagga 420
 ccgcgagaag aatgagagc 439

<210> 1229
 <211> 62
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189120h09b1

<400> 1229

gacccccct gtagcggccc attaagcccg gcgggttgtg gtggttactc ccaacgtgac 60
 cg 62

<210> 1230
 <211> 289
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189120h10b1

<400> 1230

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 atttgagttc caataaacca attacacctt cgttgttcac ttgaaagatt gtattattag 120
 aaacttcata caaggcctgg ctgtttgtat taccgtctct ttttgtggaa cttgtgctcc 180
 ttacgtttta gcctatgcac ttccctaaat caattatagc aatgttggtg cctagcaaaa 240
 aaacttaaag aaaaccaaaa taaagaccaa aataaactac acaataaaa 289

<210> 1231
 <211> 485
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsfl189120h11b1

<400> 1231

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gatccagagc aagacctaca tggaggtgaa gggtagccgc accgcgaacc agtgcccgcac 120
 catcgacggc ggcgtcgact ccttccccctt caaggccggc aagtacgaga tgaagaagtt 180
 ctgcctggag cccacctcct tcaccgtcaa ggccgagggc atccagaaga acgagccgcc 240
 ggccttccag aagaccaagc tcatgaccgc tctcacctac acccttgacg agatggaagg 300
 cccgctcgag gtcggcgccg acggcaccct caagttcgag gagaaggacg gcatcgacta 360
 cgcggacgtc accgtgcagc tccccggagg cgagcgcgtg cccttcctct tcaccgtcaa 420
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 caggg 485

<210> 1232
 <211> 438
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189120h12b1
 <400> 1232

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 caagcgcgtc catgcatgca cgtaggaagg attatatatt gaactagttg acattgttgc 120
 agttggtgga catgctgatg ggggaagggca cgctgacgcc gcacttgccg ggcacgccgg 180
 agaccttgcc catgttgatg gacttgatgc tgggtggcag gctcttgagg cacctgcacg 240
 ctatcttgcg gtccgggctg ctgcgggcca ggccggtcag cccctgcacg ccggagcagc 300
 actccttgct gatcgaggac gccctccccg tcacgtacgc cacgcacggn gcgagcttgg 360
 agtacacctg cccgtacgac agcgtcgcg aggcctccct gtcggccatc atgagcacca 420
 ccgtcgccag gaccacgg 438

<210> 1233
 <211> 196
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189007c01b1
 <400> 1233

accgaggact ttttgggcgt ttttcgtggg aaaaaaagaa aaagaaaatg acgaggatcat 60
 ttcttggcga ggcgccccaaa acaaaaataaa aaaccggcgg tcgctctcgg gggactaatc 120
 tatacaaata ccgtaaccgg gcggcttctg tttagcgggtg gtaacctaaa atctcagtgc 180
 ttggagccat gttggt 196

<210> 1234
 <211> 118
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsfl189117b09b1
 <400> 1234

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 tggtgctatc tgctatatat atggataata agaataaagg gaatcatttt cgcttctt 118

<210> 1235
 <211> 161
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189119a11b1
 <400> 1235

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 gtacttgaaa tccttctgct gccgtgacat cagagattgt gaaacatttg ataccattt 120
 gcagtttcat ttctgaatgc atgttgaatc tacttatgtt t 161

<210> 1236
 <211> 320
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsfl189120c01b1
 <400> 1236

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 tcctcccttc cgccggggagc tgacctgagc tgagccaccg ttcgaccaa ctcgcctcta 120

caagacagag catccccacc ggccggatct ctttttcac atctcccttt ccgcttcttt 180
gaaatcgctt accaccgnca tggctaagca gcagaaagaa cgcgcacgtc ccgaagttag 240
gcaactggga caacgacggc aacgtccctt tacacgtctt actttgacaa cgcgcgcaag 300
ggcaagggcg gaaagcccat 320

<210> 1237
<211> 324
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl15710042a12b1
<400> 1237

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tacctctttg ctatatccac aggtcacatg tgttggtttt catgttctga gctcttttcc 120
tattagggtg ttgatctctt tgctccttac caaagaggag gaaagatcgg gcttttttgg 180
cggtgctggg gttgggaaaa cagtgcctca tatggaactg attaacaatg ttgccaaagc 240
tcatgggatg tactttccgg gtagtttaaa gtagtgtgca cagtgggtgtt ccagtttttt 300
tttaactttg gtgcttcttc tgat 324

<210> 1238
<211> 401
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsfl15710042c11b1
<400> 1238

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ctaagggtcaa aatgtgccag aattcaatgc atttgactaa ttagaagagt taaagatgaa 120
ttacgagttg ttagacaaca ctgctaccca ttttgctcct aaaacgctaa aaacaaccga 180
aaattgctta gaagtagtaa acagctttgt tagtattttt atgggtcaaaa tgtgtcataa 240
tctaattcat ttaaccaatt cataagagtt agagatggag tatgagtgtt tagacaacac 300
ttttacccat tttattcaaa aagaggctaa aaccaacgaa aaattgctta gaagcagtaa 360
atagctttgt tagtggtttt aaaatcaa tttgtcaca t 401

CCAGACAGAG CATCCCCACC